SHEAR WAVE SPLITTING AND MANTLE FLOW IN ALASKA

By

Amanda M. McPherson, B.S.

A Thesis Submitted in Partial Fulfillment of the Requirements

for the Degree of

Master of Science

in

Geophysics: Solid Earth Geophysics

University of Alaska Fairbanks

August 2018

APPROVED:

Douglas Christensen, Committee Chair

Carl Tape, Committee Member

Jeffrey Freymueller, Committee Member

Paul McCarthy, Chair

Department of Geosciences

Anupma Prakash, Interim Dean

College of Natural Science and Mathematics

Michael Castellini, *Dean of the Graduate School*

Abstract

We explore the nature of mantle anisotropy and flow under Alaska by presenting 2389 SKS shear wave splitting observations from 547 earthquakes recorded at 384 broadband stations deployed in Alaska since 2010. We expand upon the results of *Seismic Anisotropy under central Alaska from SKS splitting observations* by Christensen and Abers (2010) and *Insights into mantle structure and flow beneath Alaska based on a decade of observations of shear wave splitting* by Perttu, Christensen, Abers, and Song (2014) to better understand the effect of flat slab subduction on mantle anisotropy and flow. Shear wave splitting is a common tool to investigate anisotropy in the upper mantle, which is often assumed to be caused by mantle flow or preexisting fabrics in the lithosphere. In Alaska, splitting appears to be controlled by the absolute plate motion of the North American and Pacific plates, and the interaction between the two plates. In particular, the subducting Pacific plate acts as a barrier to flow. Directly north of the slab, fast directions are oriented along the strike of the slab with large δts, and are caused by along strike flow in the mantle wedge. Stations further to the north, outside of the influence of the mantle wedge, gradually see fast directions parallel to the absolute plate motion direction of the North American plate. South of the slab, fast directions depend on the geometry of the subducting plate. South of the Alaska Peninsula, the fast directions are parallel to the trench, which represent along strike flow under the Pacific plate. To the east, however, flat slab subduction dominates. Here the fast directions are perpendicular to the trench (parallel to the absolute motion of the Pacific plate) and are indicative of entrained flow from the motion of the Pacific plate. Fast directions near the Fairweather-Queen Charlotte transform system are parallel to the faults, and are likely caused by the deformation associated with large lithospheric blocks moving past each other. The region between the inferred east end of the Pacific plate and the transform boundary is dominated by the collision and accretion of the Yakutat terrane. The tectonics of this region are still in debate and the fast directions are difficult to interpret.

Table of Contents

Page

List of Figures

Page

List of Supplemental Files

Page

Acknowledgments

I would like to thank my advisor Doug Christensen for approaching me all those years ago about doing a senior project that turned into this thesis. Thank you for all the field experience that took me to places in Alaska I could never have hoped to see by myself. And, of course, I would like to thank my committee members Jeffrey Freymueller and Carl Tape for their input and guidance throughout this process.

I would also like to acknowledge the National Science Foundation, in particular grant numbers NSF 1460318 and NSF 1251971, as they funded my research and studies.

Finally, I would like to thank Ben Bettisworth and my family, Rowan, Tina, and Bryan McPherson. They have been incredibly supportive, and words cannot describe how grateful I am to have them in my life.

I. Introduction

Due to its inaccessible nature, understanding the mantle and its dynamics have been a driving question in geophysics since the dawn of plate tectonics in the 1960s. Mantle dynamics around subduction zones are of particular interest, as subduction zones are the main source of both earthquakes and volcanic activity. There are a variety of techniques to indirectly sample mantle properties, one of which is shear wave splitting.

Shear wave splitting is a phenomenon that occurs when a shear wave travels through an anisotropic material. Anisotropy refers to the directional dependence of some property of a material, and in this case refers specifically to the varying seismic velocity depending on propagation direction through a material. A shear wave might encounter anisotropy anywhere along its path, but there is evidence that the main source of anisotropy is the upper mantle (Savage, 1999). Anisotropy in the mantle is likely caused by lattice preferred orientation (LPO) of mantle minerals, the most prevalent of which is olivine (Christensen, 1984; Silver & Chan, 1991). In dislocation creep strain regimes, the various crystallographic axes of mantle materials will organize and align with each other (Savage, 1999), and seismic waves will travel at different speeds when travelling in the direction of the different axes (Christensen, 1984; Savage, 1999). Under normal mantle conditions, the fast axis is aligned with the flow direction (Savage, 1999; Silver & Chan, 1991; Bowman & Ando, 1987), although different orientations are possible in particular circumstances (Christensen, 1984; Savage, 1999; Karato et al., 2008; Long & Becker, 2010).

When the shear wave travels from an isotropic medium to an anisotropic medium, it splits into two orthogonally polarized shear waves that travel at different velocities (Silver & Chan, 1991). Shear wave splitting is therefore defined by two splitting parameters, the fast direction and the time difference (δt). The fast direction is the polarization direction of the faster wave, and δt is the time between the two arrivals. However, if the initial wave polarization is too close to the fast direction or the slow direction (90 degrees away from the fast direction), no splitting occurs and analysis produces a null measurement. Null measurements may also occur where there is no anisotropy, or in the presence of vertical anisotropy. We looked at teleseismic SKS wave splitting, as teleseismic shear waves have particle motion mainly in the horizontal directions due to their low incidence angle, and are ideal for observing horizontal flow.

In this study, we determine the shear wave splitting results from 386 stations in Alaska and augment them with the results from Perttu et al. (2014) and Christensen and Abers (2010). The rollout of Earthscope's Transportable Array (TA) across Alaska greatly expanded the station coverage over the

past couple years, as did several temporary IRIS (Incorporated Research Institutions for Seismology)/PASSCAL (Portable Array Seismic Studies of the Continental Lithosphere) and Earthscope FlexArray experiments targeted at specific tectonic settings in Alaska (Fig. 1). We use these results to infer mantle flow in Alaska and the westernmost part of Canada.

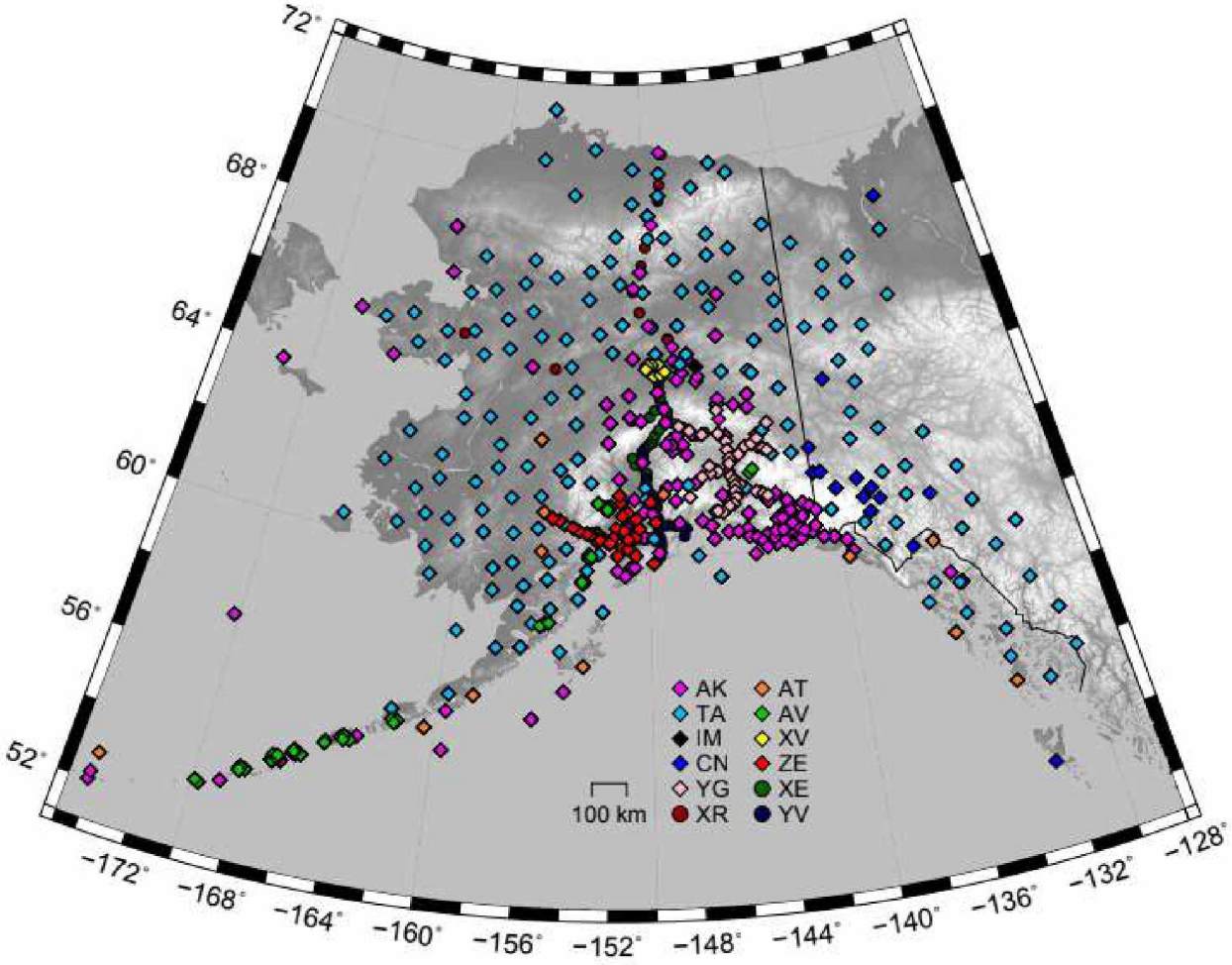

Figure 1: Distribution of stations analyzed in this study. Diamonds are stations used in this study: AK – Alaska Regional Network, AT – National Tsunami Warning Center Alaska Seismic Network, TA – USArray Transportable Array, AV – Alaska Volcano Observatory, IM – International Miscellaneous Stations, XV – Fault Locations and Alaska Tectonics from Seismicity, CN – Canadian National Seismic Network, ZE – Southern Alaska Lithosphere and Mantle Observation Network, and YG – Wrangell Volcanics and Lithospheric Fate. Circles are stations analyzed in Christensen and Abers (2010) and Perttu et al. (2014): XE – Broadband Experiment Across the Alaska Range, XR – Alaska Receiving Cross Transect for the Inner Core, and YV – Multidisciplinary Observations of Subduction. The thin black line denotes the geopolitical boundary between Alaska and Canada.

II. Tectonic Setting

Alaska covers a large amount of territory and the tectonic setting ranges from thick, relatively stable lithosphere to an actively deforming subduction zone. Northern Alaska (from the Brooks Range and northward) is largely tectonically stable, although there is some seismicity in the region with mostly strike-slip fault plane solutions (Estabrook et al., 1988). The Brooks Range started forming along the leading edge of northern Alaska in the Late Jurassic when northern Alaska detached from what is now Canada, and rotated counter-clockwise into its current position (Plafker & Berg, 1994). O'Driscoll and Miller (2015) find that the lithosphere is up to 150 km thick beneath the Brooks Range.

Southern Alaskan tectonics are dominated by the interaction between the Pacific and North American plates (Fig. 2). Subduction between the Pacific plate and the North American plate in Alaska began approximately 50 Ma (Plafker & Berg, 1994), and is characterized by a normally dipping slab in the west under the Aleutians that shallows to nearly horizontal in the eastern portion of the subduction zone where the Yakutat block subducts and accretes (Kim et al., 2014) (Fig. 2). The strike of the slab is highly variable across the length of the subduction zone (Fig. 2). Subduction-related volcanism stops as the slab begins to flatten (near -152°E) (Fig. 2), while Wadati-Benioff zone seismicity appears to stop at -148°E.

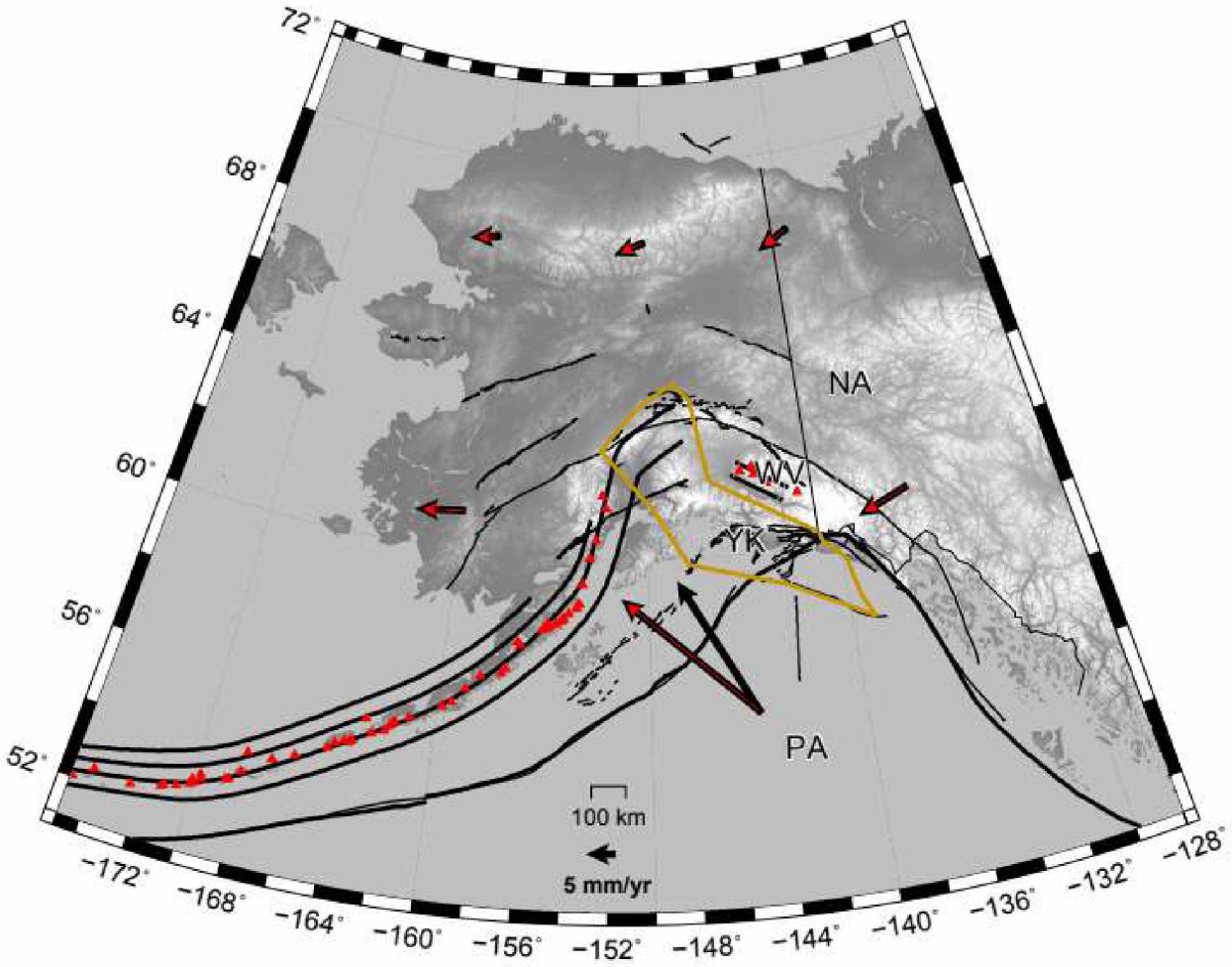

Figure 2: Basic tectonics map of Alaska. Thin black lines denote major faults in Alaska, while the thick black lines show the depth to the subducting slab in increments of 50 km, starting with the trench at 0 km. The red triangles denote active volcanoes in Alaska. The yellow outline denotes the inferred subsurface extent of the Yakutat block, as defined in Eberhart-Phillips et al. (2006). Arrows show plate motion vectors based on Bird's (2003) plate model. Reference frames are as follows: black - fixed North America, and red - hotspot (Gripp & Gordon, 2002). Abbreviations are as follows: NA - North American plate, PA - Pacific plate, WV - Wrangell Volcanics, and YK - Yaktutat Block.

The Fairweather-Queen Charlotte transform fault system defines the plate boundary in south-eastern Alaska. Transform motion is a recent development in south-eastern Alaska, beginning at approximately 50 Ma, and was preceded by a long period of the Kula plate subducting under North America (Plafker & Berg, 1994). However, immediately to the north, the Denali strike-slip fault system has been active for possibly up to 84 million years (Plafker & Berg, 1994). Much of the deformation in this region occurs along these faults.

The region between the Alaska-Aleutian subduction zone and the Fairweather-Queen Charlotte transform fault is the most tectonically complicated region in Alaska. Here, the Yakutat block collides

with Alaska. The Yakutat block is an oceanic plateau (Christesen et al., 2010; Worthington et al., 2012) that is currently subducting under (Eberhart-Phillips et al., 2006; Ferris et al., 2003; Christesen et al., 2010; Worthington et al., 2012) and accreting to (Bruns, 1983; Plafker and Berg, 1994) southern Alaska near the transition between plate boundary types. Its thickness varies from 15 km in the west to 30 km in the east (Worthington et al., 2012). The western portion is apparently subducting with the Pacific plate, and is likely the cause of the flat slab subduction in the Alaska subduction zone under Prince William Sound and the Kenai Peninsula (Eberhart-Phillips et al., 2006; Christesen et al. 2010). To the east, the thicker portions of the Yakutat block are being accreted to coastal Alaska. Several major right-lateral strike-slip faults, including the Denali fault, the Tintina fault, and the Kalteg fault are likely accommodating the deformation associated with Yakutat collision and accretion (Page et al., 1995; Bemis & Wallace, 2007; Bemis et al., 2015) (Fig. 2). Volcanism in the Wrangell volcanic field is located behind the accreting portion of the Yakutat block, and is separate from Aleutian volcanism (Fig. 2). There are some deep earthquakes under the Wrangell Volcanoes that indicate the possible presence of a Wrangell slab (Stephens et al., 1984). It has been suggested that the cut off of Wadati-Benioff seismicity at -148°E is the edge of the Pacific plate, which is separated from the Wrangell slab by a tear or gap (Fuis et al., 2008). However, Bauer et al. (2014) provided evidence of a continuous slab from P and S wave receiver functions, and Wech (2016) found tectonic tremor east of the -148°E seismicity cut off, indicating the presence of a slab extending toward the Wrangell volcanoes. Similarly, Elliott, Freymueller, and Larsen (2013) denote the extent of subduction as inferred from GPS surface velocity measurements as reaching as far as -142°E and well into the Wrangell volcanoes area.

III. Previous SKS Shear Wave Splitting Studies

Christensen and Abers (2010) determined that there were two pronounced fast directions in central Alaska, separated by a sharp boundary above the 70 km slab contour. North of the 70 km contour, fast directions parallel the strike of the slab (NE/SW); the fast directions abruptly change 90° south of the 70 km contour and are trench perpendicular (NW/SE). The rays associated with the trench perpendicular fast directions travel only short paths through the thin nose of the mantle wedge, suggesting that the anisotropy comes from a different source. They concluded that the trench perpendicular fast directions are generally parallel to the Pacific plate motion and represent flow beneath the Pacific plate. North of the 70 km contour, where the fast directions abruptly change 90 degrees and are trench/slab parallel, the δts increase with mantle wedge thickness. Christensen and Abers (2010) concluded that the shear wave splitting north of the 70 km contour is occurring in the mantle wedge. They attribute the trench/slab parallel fast directions to along-strike flow in the mantle wedge caused by either the flattening slab caused by the Yakutat block, or from toroidal flow around the eastern edge of the subducting Pacific plate.

Perttu et al. (2014) expanded upon the Christensen and Abers (2010) study with the addition of data from two temporary broadband deployments north and south of the Christensen and Abers (2010) study area. They found that the trench perpendicular fast directions south of the 70 km slab contour extend to the southern coast of Alaska, substantiating the conclusion that the fast directions are unrelated to the mantle wedge, and are most likely due to mantle flow in the direction of Pacific plate motion. North of the subducted slab, NE/SW fast directions continue to the Arctic Ocean but rotate counterclockwise from the slab parallel fast directions north of the 70 km contour. These northern fast directions are generally aligned with North American plate motions in northern Alaska (Fig. 2).

Hanna and Long (2012) found similar results to Christensen and Abers (2010) in their study in central Alaska, but also found a group of stations near the inferred eastern edge of the Pacific slab that had mostly null results. They argue that it is likely that chaotic flow around the slab edge or vertical flow up and over the slab edge is the cause of the predominantly null measurements found in this area.

IV. Data and Methods

We extracted data from both the Alaska Earthquake Center and the Data Management Center (DMC) at IRIS for all broadband seismic stations (Fig. 1 and Supplemental File A) in Alaska from January 2010 to August 18, 2017. We downloaded data for broadband stations in western Canada from the DMC at IRIS starting from January 2016. This included data from all of the permanent seismic networks: the Alaska Regional Network (AK) (DOI: https://doi.org/10.7914/SN/AK), the National Tsunami Warning Center Alaska Seismic Network (AT) (DOI: https://doi.org/10.7914/SN/AT), the Alaska Volcano Observatory network (AV), and the western portion of the Canadian National Seismic Network (CN) (DOI: https://doi.org/10.7914/SN/CN). Several temporary deployments augmented our station coverage, including EarthScope's Transportable Array (TA) (2017-est. 2019) (DOI: https://doi.org/10.7914/SN/TA), the Southern Alaska Lithosphere and Mantle Observation Network (SALMON) (2015-2017) (DOI: https://doi.org/10.7914/SN/ZE_2015), the Fault Locations and Alaska Tectonics from Seismicity (FLATS) deployment (2014-est. 2019) (DOI: https://doi.org/10.7914/SN/XV_2014), and the Wrangell Volcanic Lithospheric Fate (WVLF) project (2016-2018) (DOI: https://doi.org/10.7914/SN/YG_2016).

We manually inspected events with Mw ≥ 5 between epicentral distances of 80 degrees and 140 degrees (Supplemental File B). SKS waves are most easily visible in this distance range. Analyzing SKS waves (and other core refracted S waves) has the benefits of a known initial polarization direction and the anisotropy is constrained to the receiver side of the path (Silver & Chan, 1991). The conversion from an S to a P wave in the core erases anisotropy picked up on the source side of the path. The emergent SKS waves will be radially polarized, and any energy on the tangential component is indicative of splitting. The back azimuthal coverage for our events is not well distributed, and most of our events come from 3 separate back azimuths (Fig. 3). Arrivals from northern back azimuths are rare (Fig. 3).

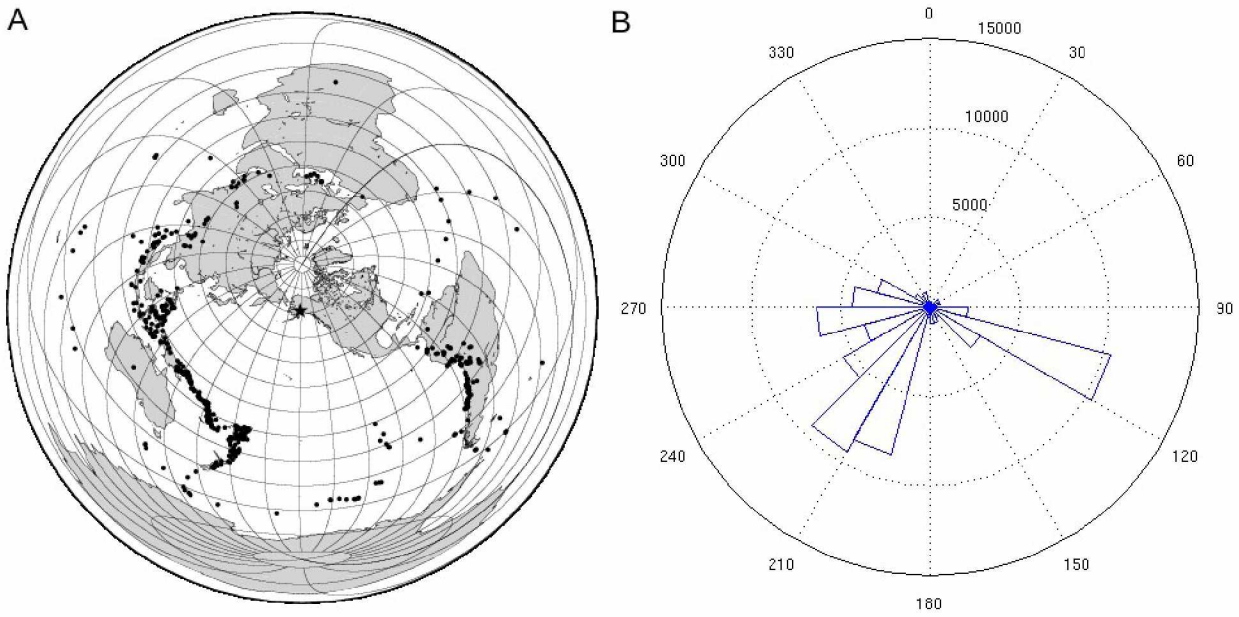

Figure 3: Distribution of earthquakes used in this study. A) Earthquake locations plotted around a central point in Alaska. B) Rose diagram showing the back azimuthal coverage for all event-station pairs. Not all event-station pairs produced results.

While all waveforms were manually inspected, not all waveforms warranted further analysis. If there was not a distinct SKS wave we discarded the waveform. In general, when the calculated SKS energy was less than 5% of the total estimated energy at the source, we did not further analyze the waveform.

All of the splitting measurements were made using Splitlab (Wüstefeld et al., 2007), which has the advantage of simultaneously calculating the splitting parameters using 3 methods: the rotation-correlation method (Bowman & Ando, 1987), the minimum energy method (Silver & Chan, 1991), and the eigenvalue method (Silver & Chan, 1991). We looked at all three methods to determine the quality of the results, but we display only the minimum energy method. The minimum energy method has been shown to be more stable in the presence of noisy data (Wüstefeld et al., 2007), and comparison with the rotation-correlation method is a reliable way of detecting nulls (Wüstefeld & Bokelmann, 2007).

We determined a measurement to be 'good' if the fast directions for all three methods were within 15 degrees of each other, and a measurement was deemed 'fair' if the fast directions were between 15 and 30 degrees of each other. Over 90% of our results have confidence intervals within ±20°, although we did keep results with larger confidence intervals (within ±35°). We discarded results that fell outside these limits. We also discarded any results that had multiple minima, or had a signal-to-noise ratio less than 3.

V. Results and Discussion

Shear wave splitting results are shown in Figures 4 and 5, and listed in Supplemental File C. The results are plotted as pink line segments oriented in the fast direction, and the length of each is proportional to the δt. Each measurement is plotted above the 100 km piercing point of the incoming ray, which offset the measurement from the station in the direction of the back azimuth. The 100 km depth was chosen arbitrarily to separate results from different back azimuths, and does not necessarily represent the actual depth of the anisotropy. There are 2389 individual results plotted in Figure 4, from 386 stations in this study, and the 842 results from Perttu et al. (2014) and Christensen and Abers (2010) are shown in Figure 5.

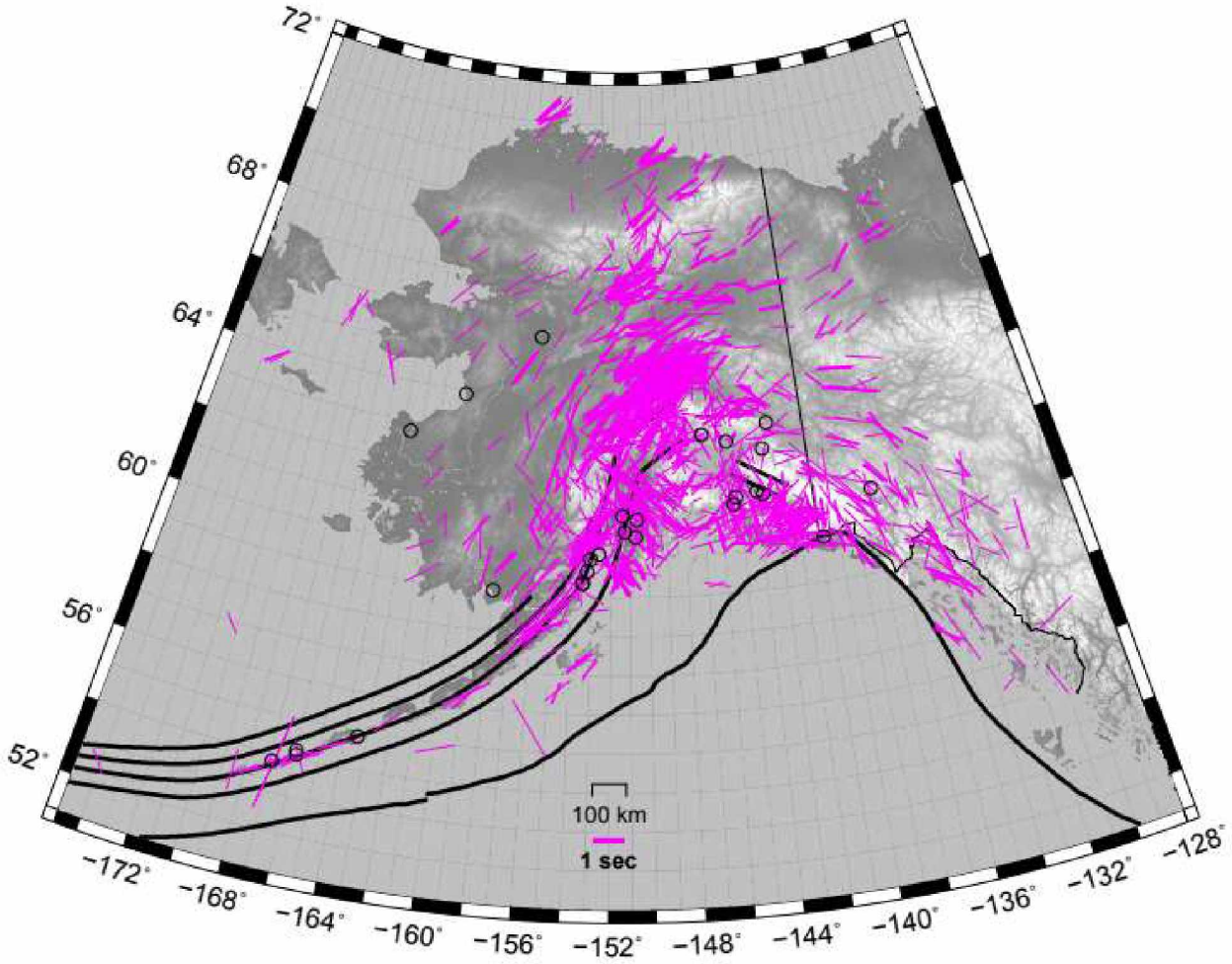

Figure 4: Map showing the SKS splitting results of this study. The pink line segments are parallel to the fast splitting directions, and the length of each segment is proportional to the splitting time (δt). Splitting observations are plotted at the 100 km projection of the ray paths to separate measurements from different back-azimuths. Also shown are stations that had only null measurements as circles. The thick black lines are as described in Figure 2.

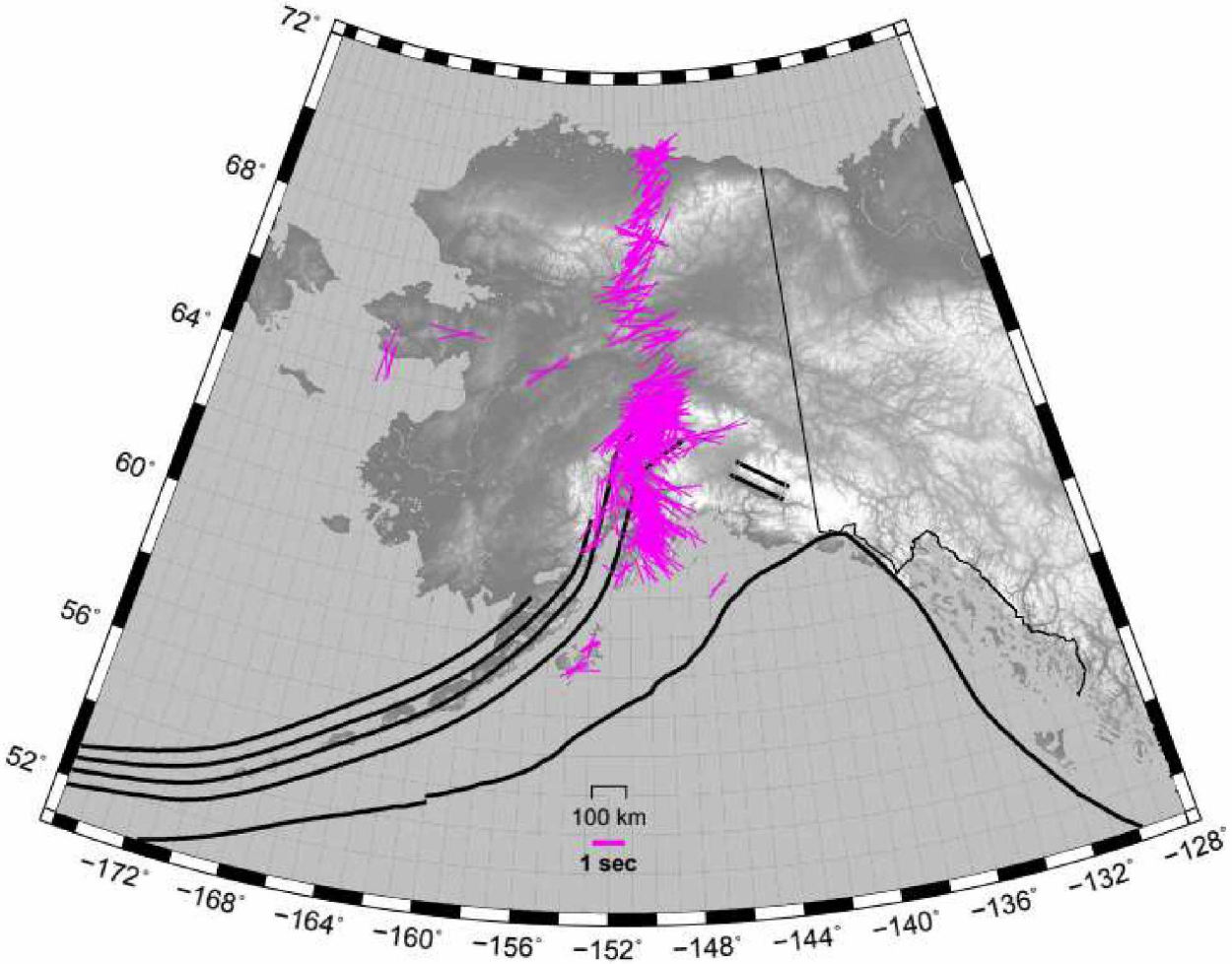

Figure 5: Map showing the results of Perttu et al. (2014) and Christensen and Abers (2010). The pink line segments are plotted as described in Figure 4, and the thick black lines are as described in Figure 2.

We additionally identified 927 null measurements (Supplemental File D), shown in Figure 6. These observations are plotted as a cross oriented with one line in the back azimuth direction and the other perpendicular to the back azimuth. Null measurements can indicate either no azimuthal anisotropy along the raypath, or that the back azimuth of the arrival is close to the fast (or slow) direction and the wave does not split. Approximately half of the null measurements are from waves arriving from back azimuths close to the fast (or slow) directions as observed at the station, which may explain the lack of splitting. The other null measurements arrive from directions which are clearly not in the fast (or slow) direction that is observed at the station. In many cases, the null measurements are occurring at stations with well-established splitting, and it seems unlikely that these measurements represent a lack of anisotropy. Instead, these likely have to do with the quality (and amplitude) of SKS waves, in addition to the noise conditions at the seismic station. The majority of our null measurements are located near the Gulf of Alaska and the Wrangell volcanoes area. Stations near the Gulf of Alaska

experience higher noise from ocean waves and storms. Stations on sedimentary basins are also generally more noisy.

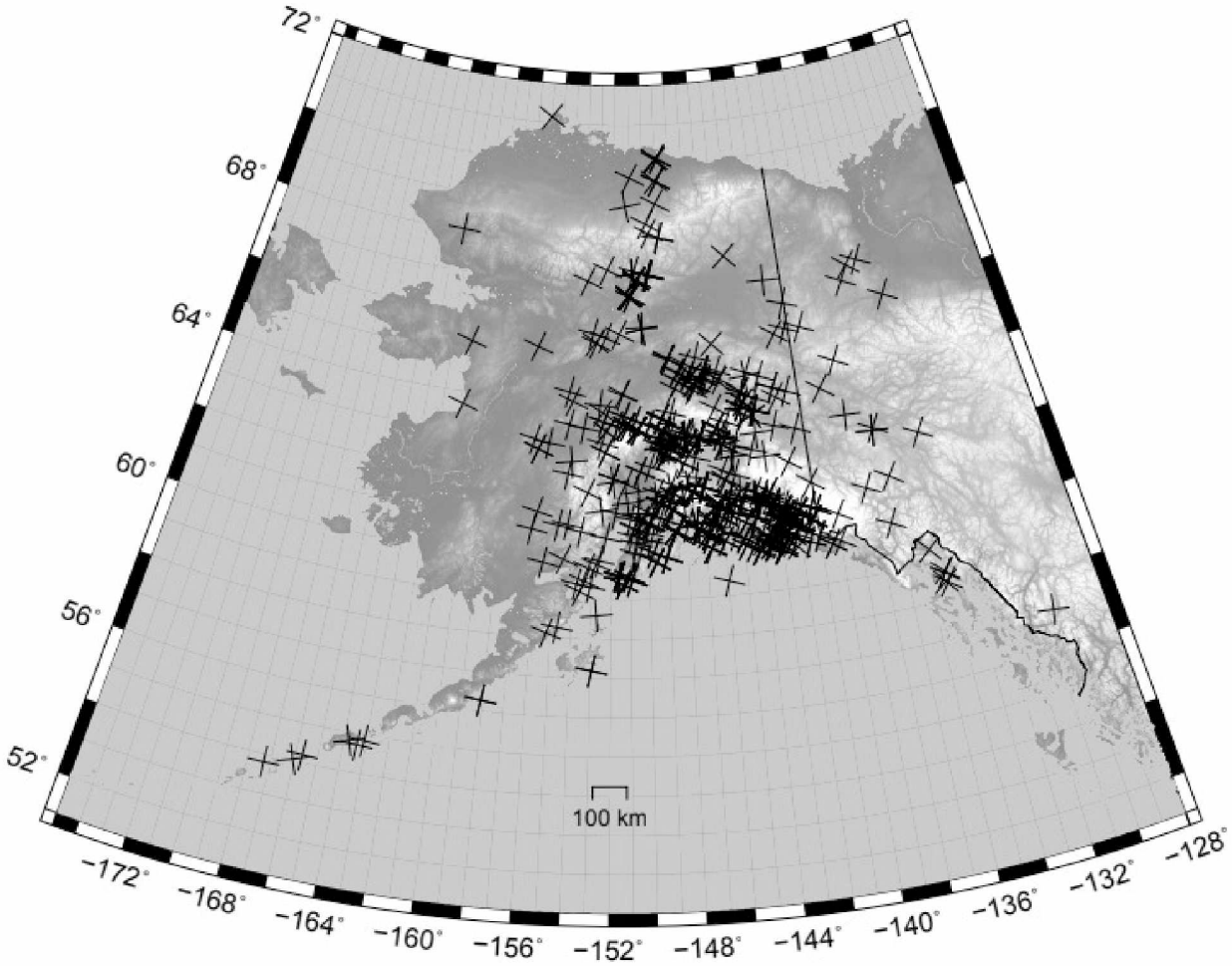

Figure 6: Map showing the null measurements found in this study. Each cross is one null observation measurement with the back-azimuth plotted on one axis and the back azimuth plus 90 degrees as the other axis. All null measurements are plotted at the 100 km piercing point of the ray paths to separate observations from different back-azimuths.

Anisotropy in Alaska appears to be primarily influenced by the motion of the North American and Pacific plates. However, the interaction between these two plates (subduction, accretion, and transform motions) significantly alters the splitting observations and thus mantle flow. Fast directions in Alaska tend to be either NW/SE or NE/SW, and in many regions these fast directions are consistent at all back azimuths. This is indicative of simple horizontal flow in the upper mantle. Stations that are located near the plate boundary often have fast directions that depend on the back azimuth of the approaching rays. Azimuthal dependence can be caused by dipping or layered anisotropy; however, in most cases we

can interpret these patterns as waves that are sampling different flow regimes associated with the subduction process. Through careful analyses of the back azimuthal dependence of the shear wave splitting observations at each station, we have found 11 regions of stations that display the same pattern of back azimuthal dependence. The stations with similar splitting patterns are shown in different colors in Figure 7 and each region is discussed below.

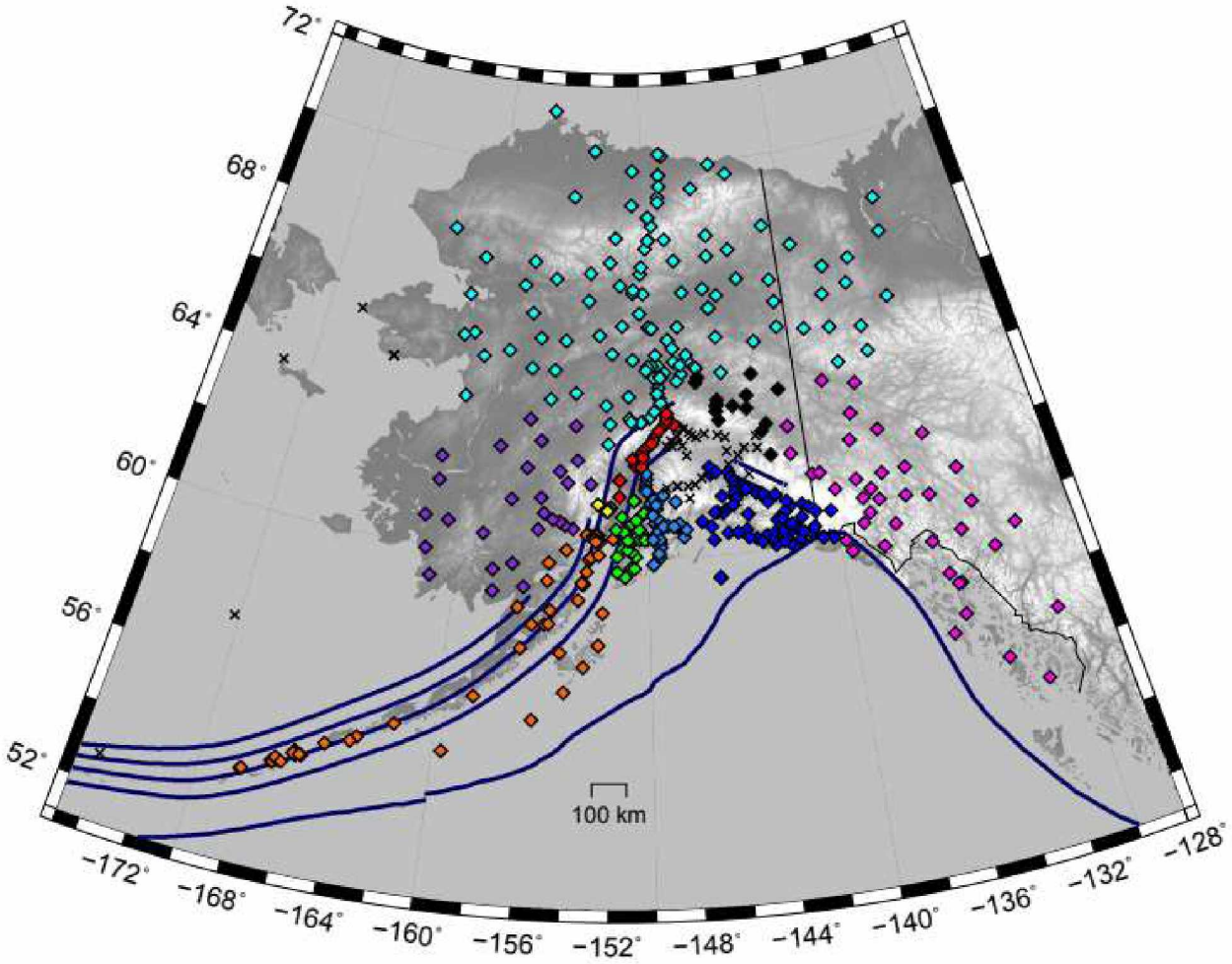

Figure 7: Stations that exhibit the same pattern of shear wave splitting. The regions are as follows: cyan - North; black - East Central; magenta - Transform; dark blue - Yakutat Collision; red - Interior; sky blue - East Kenai; green - West Kenai; yellow - Spurr; orange - Alaska Peninsula; and purple - Southwest. The crosses are stations that we have data and results from but do not show consistent fast directions. The blue lines are the same as the black lines in Figure 2, but changed for clarity.

In the Northern Alaska Region (cyan diamonds, Fig. 7), fast directions consistently trend NE/SW at all back azimuths (Fig. 8a,b). The range of fast directions in this region is large, from about 20° to 110° (Fig. 8b). However, the median value is 53° and 86.9% of all the values fall within ±25° of the median. The highly variable fast directions are not unexpected, as this area is over 1000 km long and 600 km

wide. The fast directions are approximately parallel to the absolute plate motion directions across the region (Fig. 2). North America is moving very slowly, and models for the absolute plate motion can vary greatly based on different reference frames. In Figure 2 we show an absolute plate motion model vector and the plate motion of the Pacific plate relative to North America. Our results tend to match the azimuth of the hotspot reference model of Gripp and Gordon (2002) (red vectors, Fig. 2), although they do match the azimuth of the GRSM-APM-1 model (Kreemer, 2009) as well (not shown). The GRSM-APM-1 model is an absolute reference frame based on global observations of shear wave splitting results away from plate boundaries (Kreemer, 2009). The δts average to 1.09 seconds; however, there is a clear trend of the δts increasing to the south toward the subduction zone and mantle wedge, with the largest δts occurring around 65°N near the thickest part of the mantle wedge (Fig. 8c). There is a small area in the core of the central Brooks Range where the fast directions are slightly rotated counter-clockwise from the rest of the region (see fast directions clustered around 0° in Fig. 8b). This region has the highest topography in the Brooks Range, and the fast directions may reflect altered flow caused by the roots of the Brooks Range, or fossil anisotropy from the formation of the Brooks Range, which experienced N/S convergence. The δts in this region are slightly elevated as well (Fig. 8c).

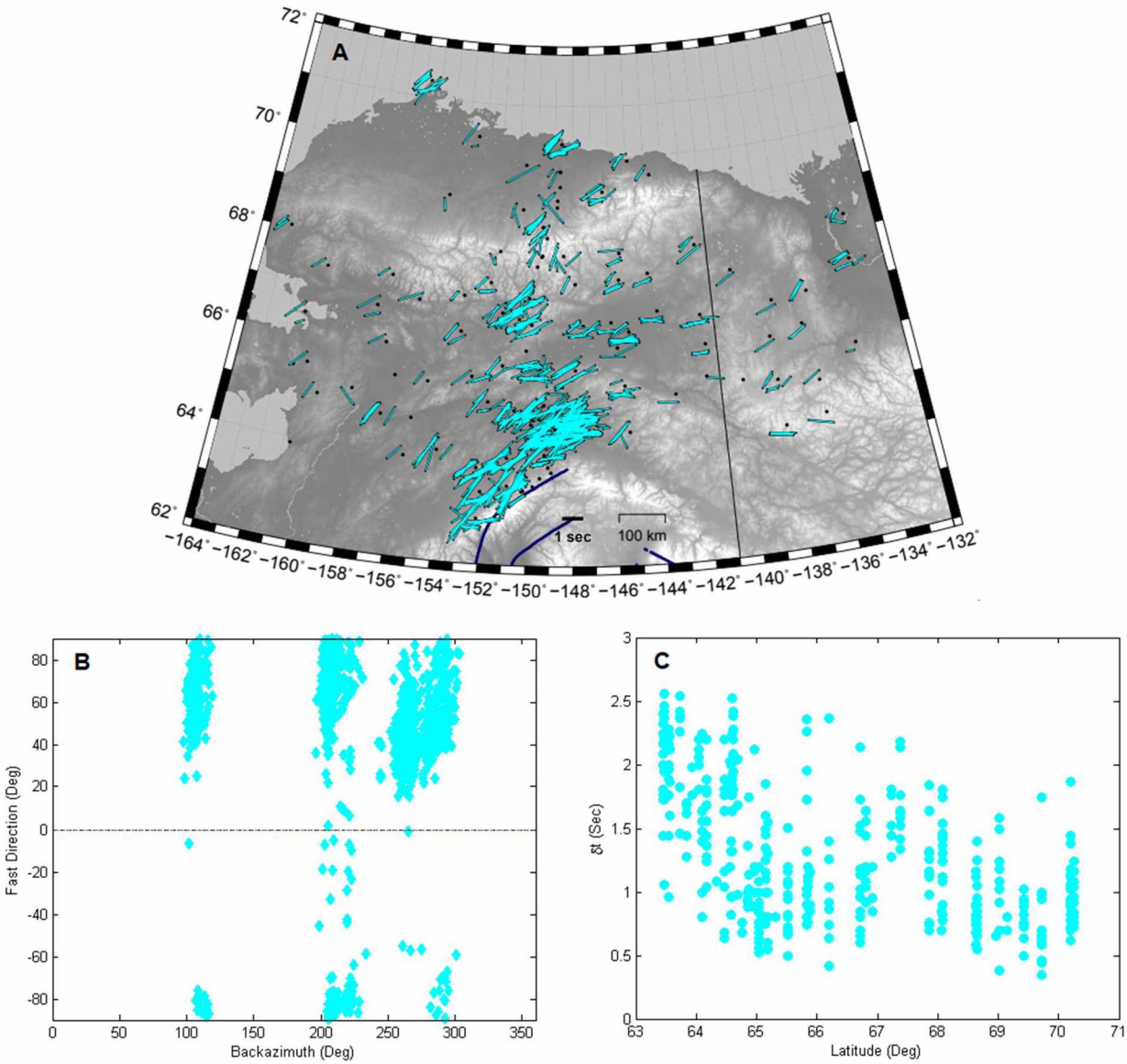

Figure 8: Close up of the North Region splitting observations, including those from Christensen and Abers (2010) and Perttu et al. (2014). A: Map of splitting observations. Dots indicate the location of the stations, and the thick blue lines are the contours of the subducting slab in increments of 50 km. Splitting observations are plotted as described in Figure 4. B: Back-azimuth vs. fast direction plot for the North Region. This includes all of the results for the North Region. 0° is North, and +90° and -90° are E/W for fast directions. The fast directions are NE/SW at all backazimuths. C: Latitude vs. δt plot for the North Region. This plot displays only those results from stations between -152°W and -148°W and results from back azimuths of 250° and greater to highlight the increase in δt as the stations approach the subduction zone and the thickest part of the wedge.

The Alaska Peninsula Region (orange diamonds, Fig. 7) consists of many stations along the volcanic arc from the eastern Aleutians to Redoubt volcano. The fast directions are consistently NE/SW at all back azimuths (Fig. 9a,b), with a mean of 46.8°. Rays to most of these stations travel through the

mantle wedge, and the fast directions indicate flow along the strike of the slab. Two previous studies analyzed local S waves that travelled through the wedge and observed splitting fast directions parallel to the strike of the slab in this region (Yang et al., 1995; Wiemer et al., 1999). Waves from western back azimuths travel through the thicker parts of the mantle wedge and have higher δts (up to 2.5 seconds) compared to the waves from the southwestern and southeastern back azimuths (up to 1.1 seconds) which travel through the narrower parts of the mantle wedge or under the Pacific plate (Fig. 9c). There are 7 stations that are located seaward of the volcanic arc, closer to the trench. Rays arriving at these stations do not sample the mantle wedge, and the fast directions are indicative of trench parallel flow beneath the Pacific plate. Trench parallel fast directions near the trench have been documented in the majority of subduction zones globally (Long, 2013; Long & Becker, 2010; Long & Silver, 2009).

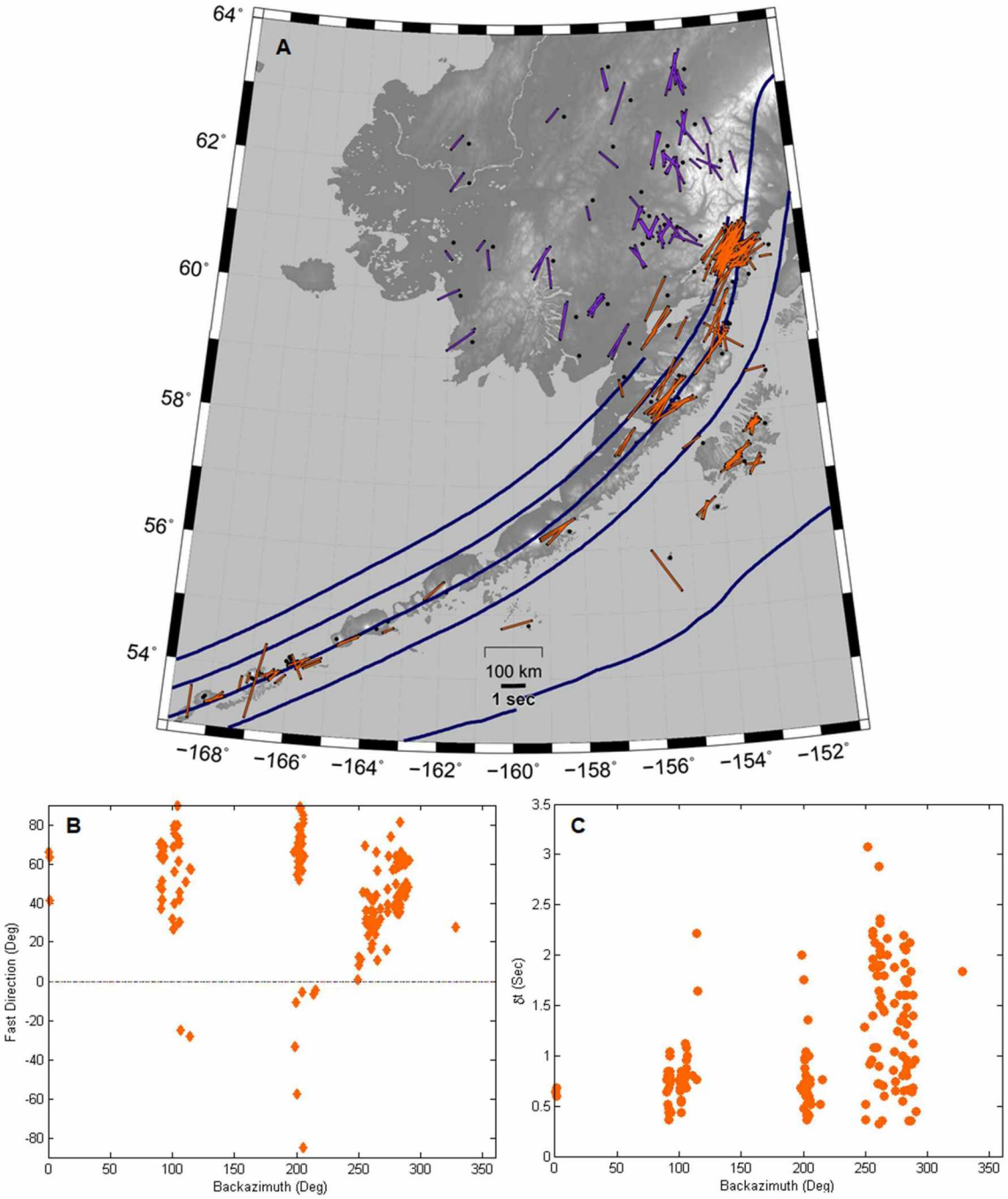

Figure 9: Alaska Peninsula splitting parameters, including those of Christensen and Abers (2010) and Perttu et al. (2014). A: Close up of the Alaska Peninsula and Southwestern Regions. The color of the line segments match the color of the stations in Figure 5, and the dots indicate the location of the station. The thick blue lines show the depth to the subducting Pacific slab in increments of 50 km, starting with the trench being the 0 km contour. Splitting observations are plotted as described in Figure 4. B: Back azimuth vs. fast direction plot for the Alaska Peninsula Region. Most fast directions are NE/SW independent of back azimuth. C: Back azimuth vs. δt plot for the Alaska Peninsula Region. Waves that arrive from the west (travelling through the thickest part of the mantle wedge) have larger δts than those wave that arrive from the east.

The Southwestern Region (purple diamonds, Fig. 7) is bordered by the Northern Region to the north and the Alaska Peninsula Region to the south. The eastern part of the region approaches the subducting slab, which has a nearly N/S strike near Spurr and Redoubt volcanoes. Waves from western back azimuths have fast directions similar to those in the Northern Region (ranging from 0° to 60°) (Fig. 10). Rays arriving from this back azimuth do not traverse the mantle wedge, and the fast directions are indicative of mantle flow in the direction of North American plate motion. Waves arriving from the south to southwest recorded at stations on the eastern edge of the region show fast directions that are nearly N/S (Fig. 10). The N/S fast directions are from the waves that travel through the mantle wedge near the volcanic arc, and are likely seeing slab parallel flow in the mantle wedge. The average δt is 0.92 seconds.

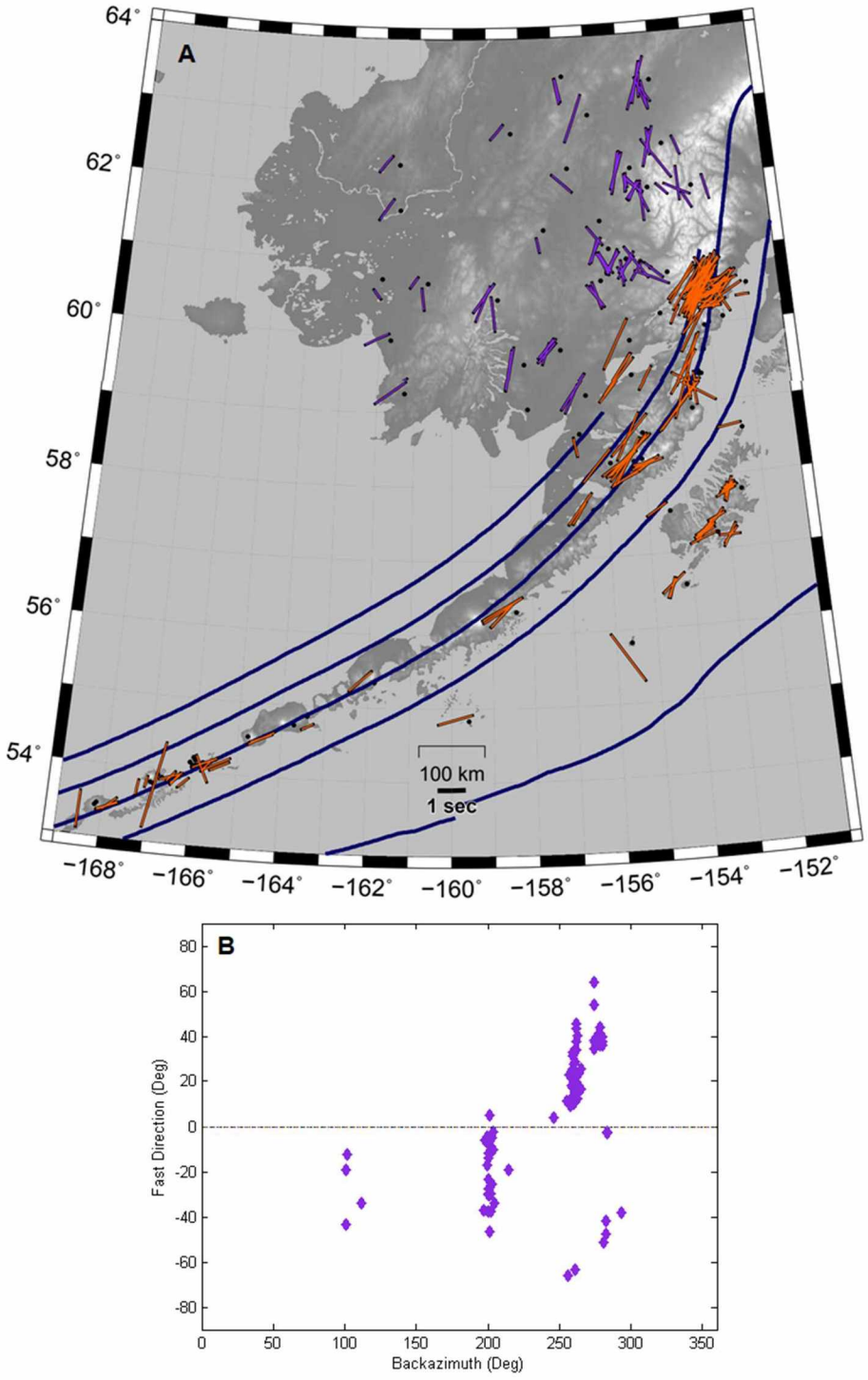

Figure 10: Southwestern Region splitting observations, including those of Christensen and Abers (2010) and Perttu et al. (2014). A: Close up of the Alaska Peninsula and Southwestern Regions. Map is the same as in Figure 10. B: Backazimuth vs. fast direction plot for the Southwestern Region. Waves from back azimuths less than 200° yield nearly N/S fast directions, which are parallel to the strike of the slab near the stations that we observe these fast directions. Waves from the western back azimuths (250° or greater) produce mostly NE/SW fast directions.

The Interior Region (red diamonds, Fig. 7) is a narrow area located between the 50 and 100 km contours of the subducting slab, extending southwest to the volcanic arc. This region was discussed extensively in Christensen and Abers (2010) and Perttu et al. (2014), and we refer readers to the aforementioned papers for further details. In this study we add to their work to show that the region extends along the 70 km contour to the southwest, over the entire region of flat slab subduction (Fig. 11b). This region has two main fast directions: waves from the southeast yield NW/SE fast directions and waves from the west primarily see NE/SW fast directions (Fig. 11). The waves arriving from the southeast travel very short paths through the mantle wedge, suggesting that the splitting does not occur there. These waves sample the mantle under the Pacific plate, and the NW/SE fast directions parallel the absolute plate motion direction of the Pacific plate. This suggests that the anisotropy is likely caused by mantle flow under the Pacific plate (Christensen & Abers, 2010; Perttu et al., 2014). Waves from the west travel through the thicker parts of the mantle wedge. The NE/SW fast directions parallel the strike of the slab, and indicate flow in the mantle wedge (Christensen & Abers, 2010; Perttu et al., 2014).

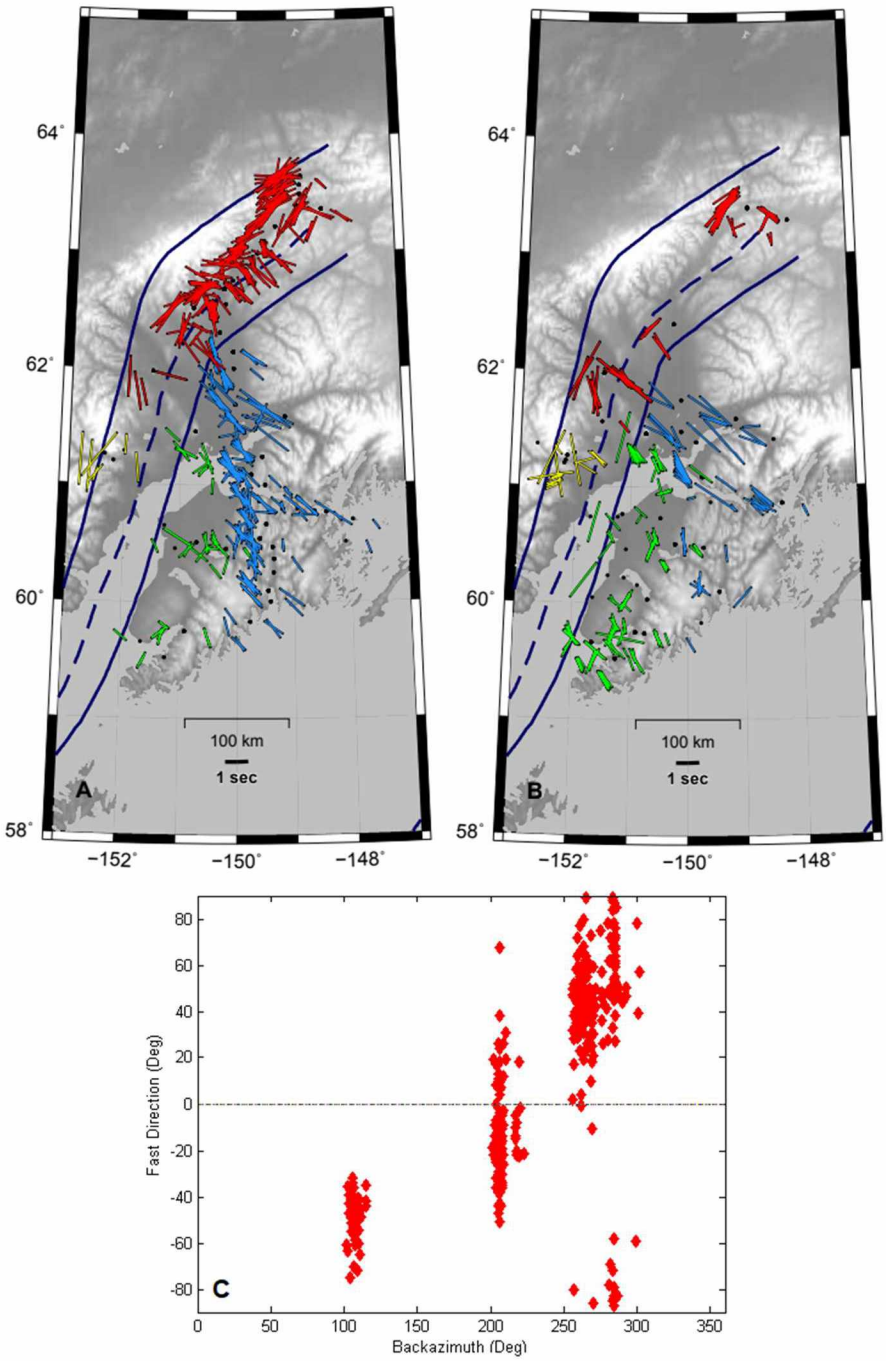

Figure 11: Interior Region splitting observations. A: Close up of the Interior, Spurr, East Kenai, and West Kenai splitting observations of Christensen and Abers (2010) and Perttu et al. (2014). The color of the lines match the color of the stations in Figure 5. The thick blue lines show the depth to the subducting slab in increments of 50 km, starting with the 50 km contour; the dashed line is the 70 km contour; and the dots indicate the station locations. Splitting observations are plotted as described in Figure 4. B: Close up of the same regions in A, but for the observations of this study. C: Back azimuth vs. fast direction plot for the Interior Region for all splitting observations. There are two main fast directions; waves from the 200° back azimuth bin see either the NE/SW or the NW/SE fast direction depending on station location.

Song and Kawakatsu (2013) explained the splitting pattern observed in the Interior Region as the combination of weak azimuthal anisotropy and strong radial anisotropy from the oceanic asthenosphere. Their model indicates that as the oceanic asthenosphere subducts with the plate, the change in the symmetry axis as the plate dips yields the 90° change in fast directions seen in the Interior Region. We agree that dipping radial anisotropy can produce apparent azimuthal anisotropy above the dipping parts of the slab, but this does not explain the shear wave splitting patterns we observe. The model of Song and Kawakatsu (2013) requires that the mantle is transparent to anisotropy. This seems unlikely as mantle wedges are commonly expected to be more mobile and under higher stress than typical asthenosphere, and it is very likely that the mantle wedge is anisotropic. Christensen and Abers (2010) showed that the delay times increased with the path length in the mantle wedge, and used this to suggest anisotropy of approximately 8%, much higher than what is expected in subducting asthenosphere. In addition, the main effect of the mantle wedge appears to be strengthening anisotropy (Figs. 8c and 9c): the strike parallel fast directions do not disappear away from the slab, but the δts decrease with distance (i.e. North and Alaska Peninsula Regions above). Nonetheless, having made these observations, it would be difficult to say that there is no contribution from dipping radial anisotropy as suggested by Song and Kawakatsu (2013), as in this case the theorized fast directions are parallel to the strike of the plate and in the same direction as those observed.

The Spurr Region is a small area (yellow diamonds, Fig. 7) that separates the Interior and Alaska Peninsula Regions along the volcanic arc. Rays from southwestern and western back azimuths have fast directions subparallel to the strike of the slab (Fig. 12), similar to the adjacent Interior (to the northeast) and Alaska Peninsula (to the southwest) Regions, indicating along strike flow in the mantle wedge. Due to the change in the strike of the slab, waves from the southwest always sample the mantle wedge, unlike the Interior region where (depending on the station location) waves from the southwest may traverse either the mantle wedge or sample under the Pacific plate (Christensen & Abers, 2010). Rays from eastern back azimuths have predominantly trench perpendicular fast directions (Fig. 12), similar to the East Kenai Region discussed below. This pattern reflects flow beneath the Pacific plate in the direction of Pacific plate motion.

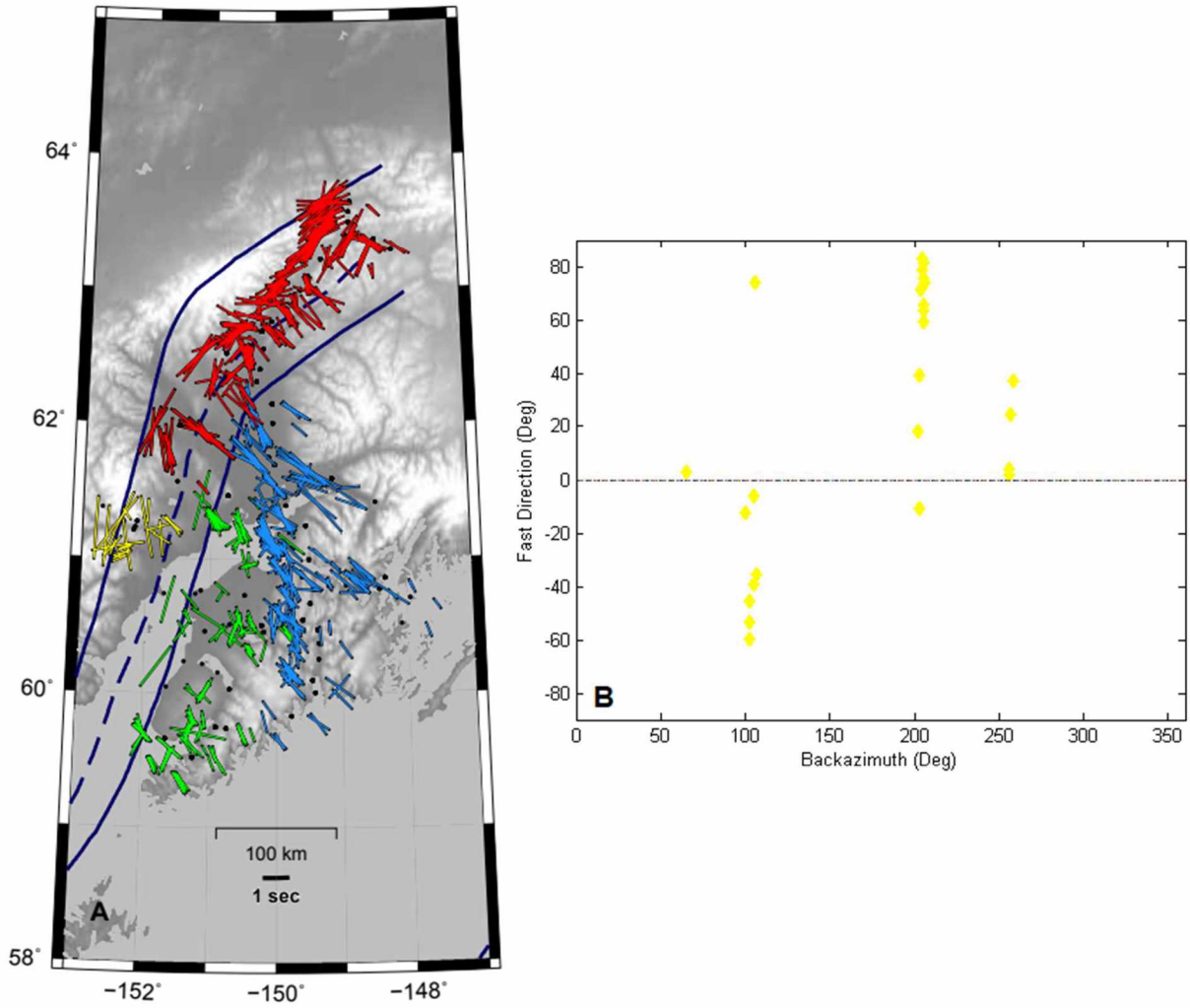

Figure 12: Spurr Region splitting observations, including those from Christensen and Abers (2010) and Perttu et al. (2014). A: Close up of the Spurr, Interior, East Kenai, and West Kenai splitting parameters. Map is the same as in Figure 12. B: Back azimuth vs. fast direction plot for the Spurr Region. Two main fast directions are see in this region: NE/SW (subparallel to the strike of the slab) and NW/SE (perpendicular to the strike).

The East Kenai Region (sky blue diamonds, Fig. 7) lies directly above the flat slab portion of the subduction zone, southeast of the volcanic arc. It has consistent NW/SE fast directions at all back azimuths (Fig. 13a,b). The average fast direction is -33° across the entire region. Waves arriving at these stations do not travel through the mantle wedge, but instead sample the mantle beneath the North American and Pacific plates, which are in contact over a broad region. The fast directions are parallel to the absolute plate motion of the Pacific plate, which indicates the anisotropy is caused by mantle flow beneath the Pacific plate (Christensen & Abers 2010; Perttu et al., 2014). The average δts is 1.01 seconds, with approximately 85% of the δts between 0.5 and 1.5 seconds. The trench perpendicular fast

directions are not consistent with the trench parallel fast directions observed to the southwest in the Alaska Peninsula Region. The most likely explanation is that the subduction of the Yakutat terrane and the resulting flat slab is controlling the mantle flow; in effect entraining flow in the direction of Pacific plate motion as the slab shallows. Observations of trench perpendicular fast directions below the subducting plate near the trench are not common, but have been found in places such as the Cascadia (Currie et al., 2004; Russo, 2009), Mexico (Léon Soto et al., 2009), and South America (Polet et al., 2000; Anderson et al., 2004) subduction zones.

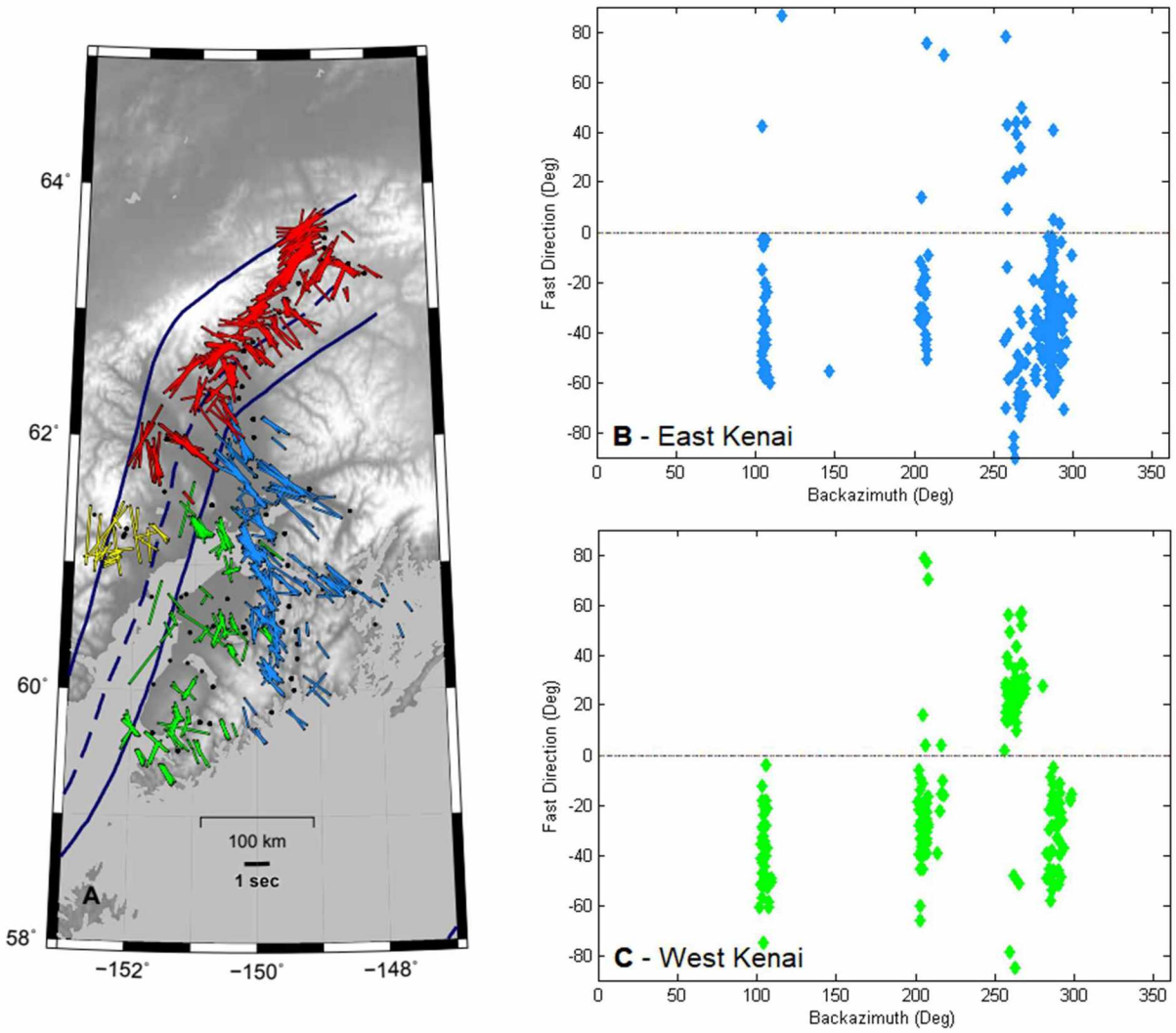

Figure 13: East and West Kenai Regions splitting parameters, including those from Christensen and Abers (2010) and Perttu et al. (2014). A: Map of the East Kenai, West Kenai, Interior, and Spurr splitting observations. Map is the same as in Figure 12. B: East Kenai back azimuth vs. fast direction plot. The fast directions are consistently NW/SE for all back azimuths in this region. C: West Kenai back azimuth vs. fast direction plot. Most fast directions are NW/SE in this region, but waves travelling directly from the west yield NE/SW fast directions.

The West Kenai Region (green diamonds, Fig. 7) lies above the area where the subduction zone transitions from flat slab subduction (to the northeast) to more normally dipping subduction (to the southwest). This region is similar to the East Kenai Region in that most back azimuths have NW/SE fast directions (Fig. 13a,c). As previously discussed, these fast directions are parallel to the Pacific plate motion direction and represent flow beneath the Pacific plate. However, rays from the west have NE/SW fast directions (Fig. 13c). Depending on the location of the station, rays arriving from the west are either travelling through the mantle wedge (indicating slab parallel flow in the mantle wedge), or

sampling the mantle beneath the Pacific plate (indicating trench parallel flow under the slab). In either case, these fast directions are similar to those seen in the Alaska Peninsula Region to the southwest. Thus the Western Kenai Region appears to be where the trench perpendicular fast directions beneath the Pacific plate transition to trench parallel, and this appears to be connected to the change in dip of the subducting plate.

Along the Fairweather-Queen Charlotte transform system and north into the Denali fault strike-slip system (magenta diamonds, Fig. 7), the fast directions are NW/SE at all back azimuths (Fig. 14) and are generally parallel to the strike of the transform and strike-slip faults in the region. This is a broad region that extends far into interior Alaska and Canada along both the Fairweather and Denali Faults. The average δt is 1.12 seconds, but can be up to 3 seconds. Fast directions in strike-slip or transform boundary regions should parallel the strike of the fault, and the δts should be fairly large due to a vertical foliation plane (Savage, 1999). The strike parallel fast directions and large δts in this region indicate that the splitting is likely caused by deformation between the two lithospheric blocks. Fast directions oriented parallel to large strike-slip and transform faults have been observed in other regions (e.g. Vinnik et al., 1992; Bostock and Cassidy, 1995; Russo et al., 1996).

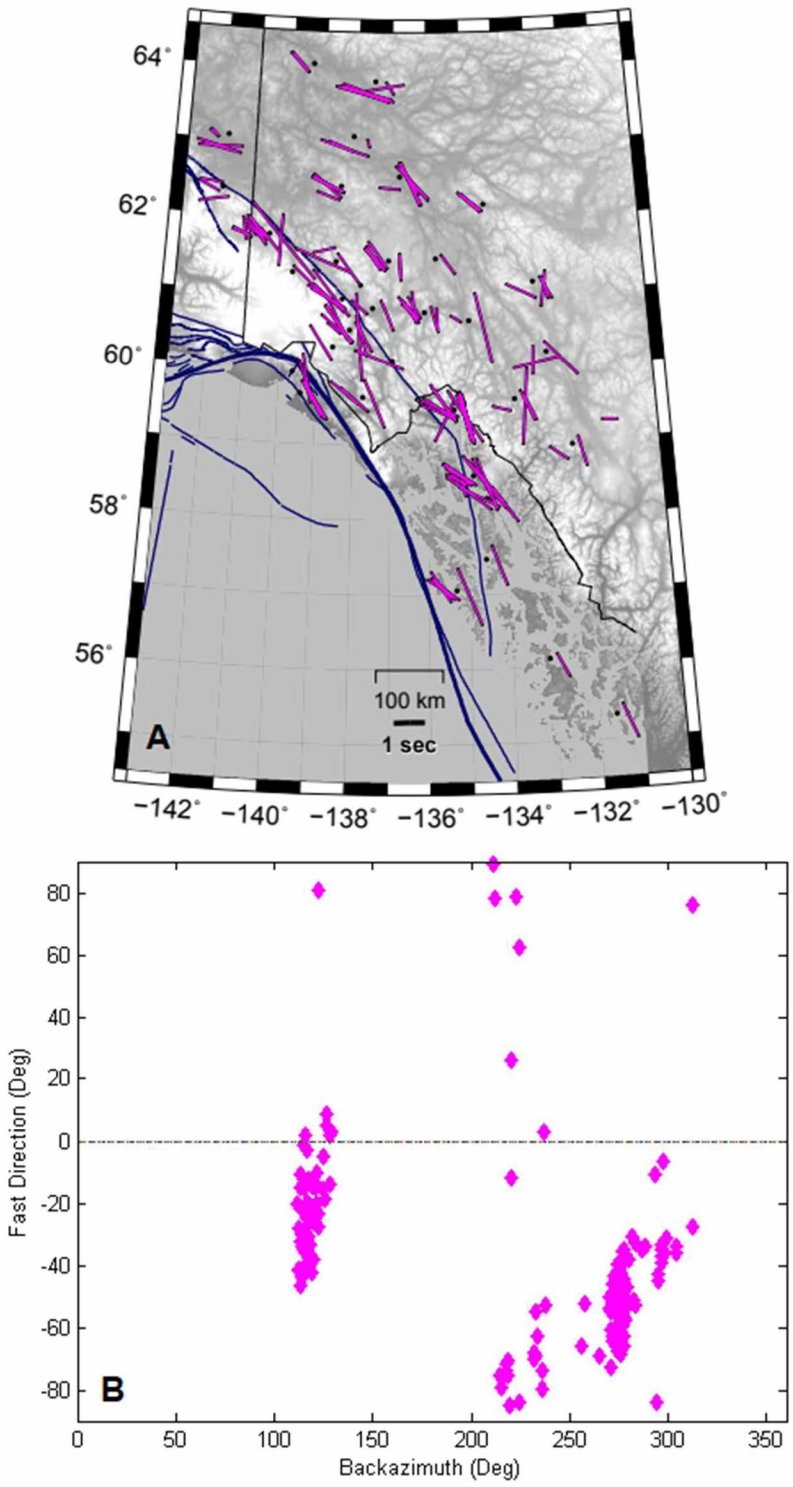

Figure 14: Transform Region splitting observations. A: Close up of the Transform Region. The dots indicate the location of the station, and the line segments are plotted as described in Figure 4. The thick blue line is the transform margin, and the thin blue lines indicate active faults. B: Back azimuth vs. fast direction plot for the Transform Region. Most fast directions are NW/SE in this region.

The East Central Region (black diamonds, Fig. 7) is located between the North and Yakutat Collision Regions, north of the Alaska Range. The fast directions from the East Central Region (Fig. 15a,b) are sparse and hard to explain. Waves coming from the southeast have the predominantly NW/SE fast directions (Figs. 15b and 16a) that are also seen in the Transform Region to the southeast. It is possible that the Denali Fault (Fig. 2) and associated deformation contributes to splitting for waves from the southeast. Southwestern back azimuths yield nearly E/W fast directions (Figs 15b and 16b), and the cause of this anisotropy has yet to be discovered. These waves do interact with the Alaska Range, and we may be seeing a fossil anisotropy signature with the E/W fast directions. Waves from the west have NE/SW fast directions (Figs. 15b and 16c), and are parallel to the absolute plate motion direction of North America (Fig. 2). These are therefore indicative of mantle flow in the direction of plate motion, as seen in the North Region.

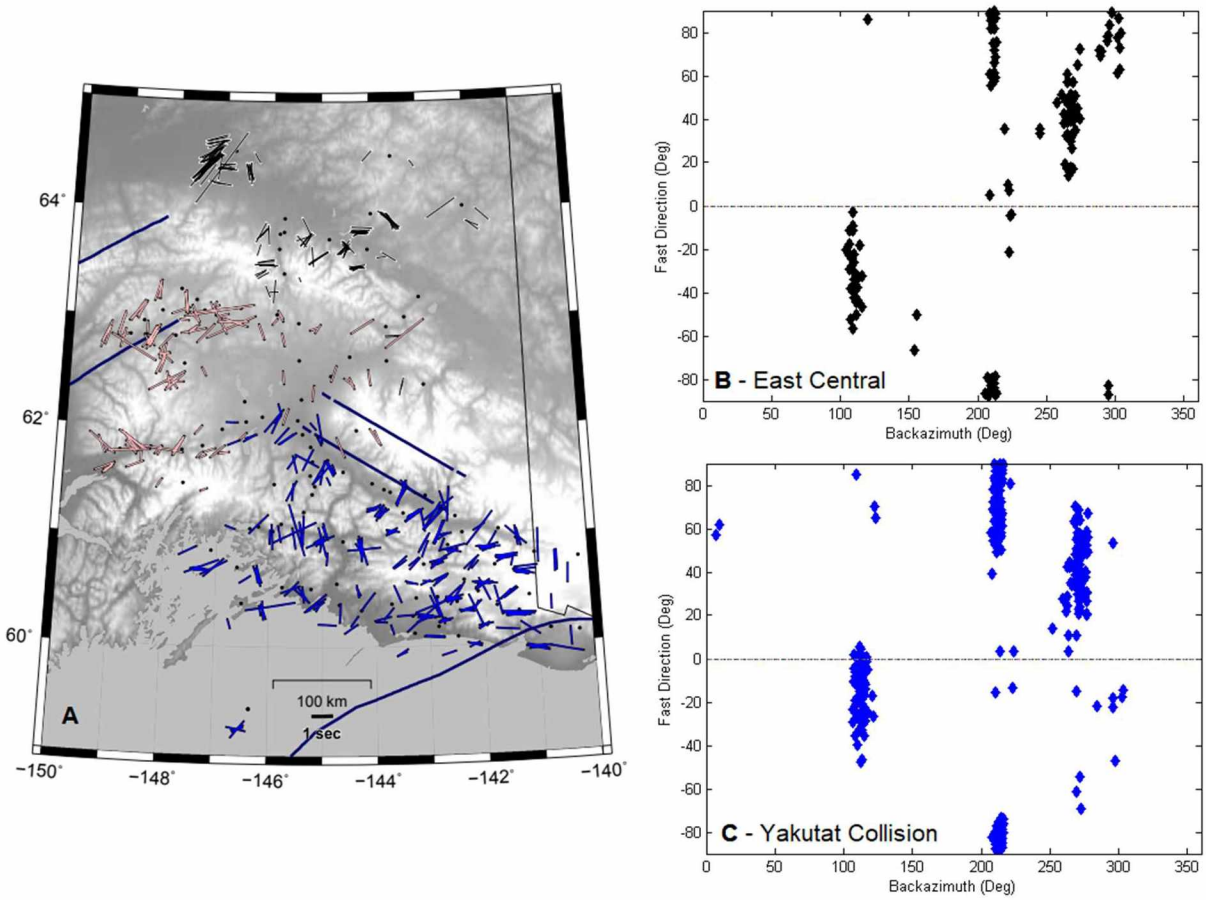

Figure 15: East Central and Yakutat Collision splitting observations, including those from Christensen and Abers (2010) and Perttu et al. (2014). The Other Region has been recolored pink in this figure. A: Close up of the East Central and Yakutat Collision splitting parameters. The color of the lines matching the color of the corresponding stations in Figure 5, and the dots indicate the location of the stations. The thick blue lines are the contours of the Pacific and inferred Wrangell slabs, in increments of 50 km, starting with the trench at 0 km. Splitting observations are plotted as described in Figure 4. B: East Central back azimuth vs. fast direction plot. There are three fast directions observed in this region: NW/SE, E/W, and NE/SW. C: Yakutat Collision back azimuth vs. fast direction plot. This region is identical to the East Central Region, but is in a different tectonic setting and separated by another region.

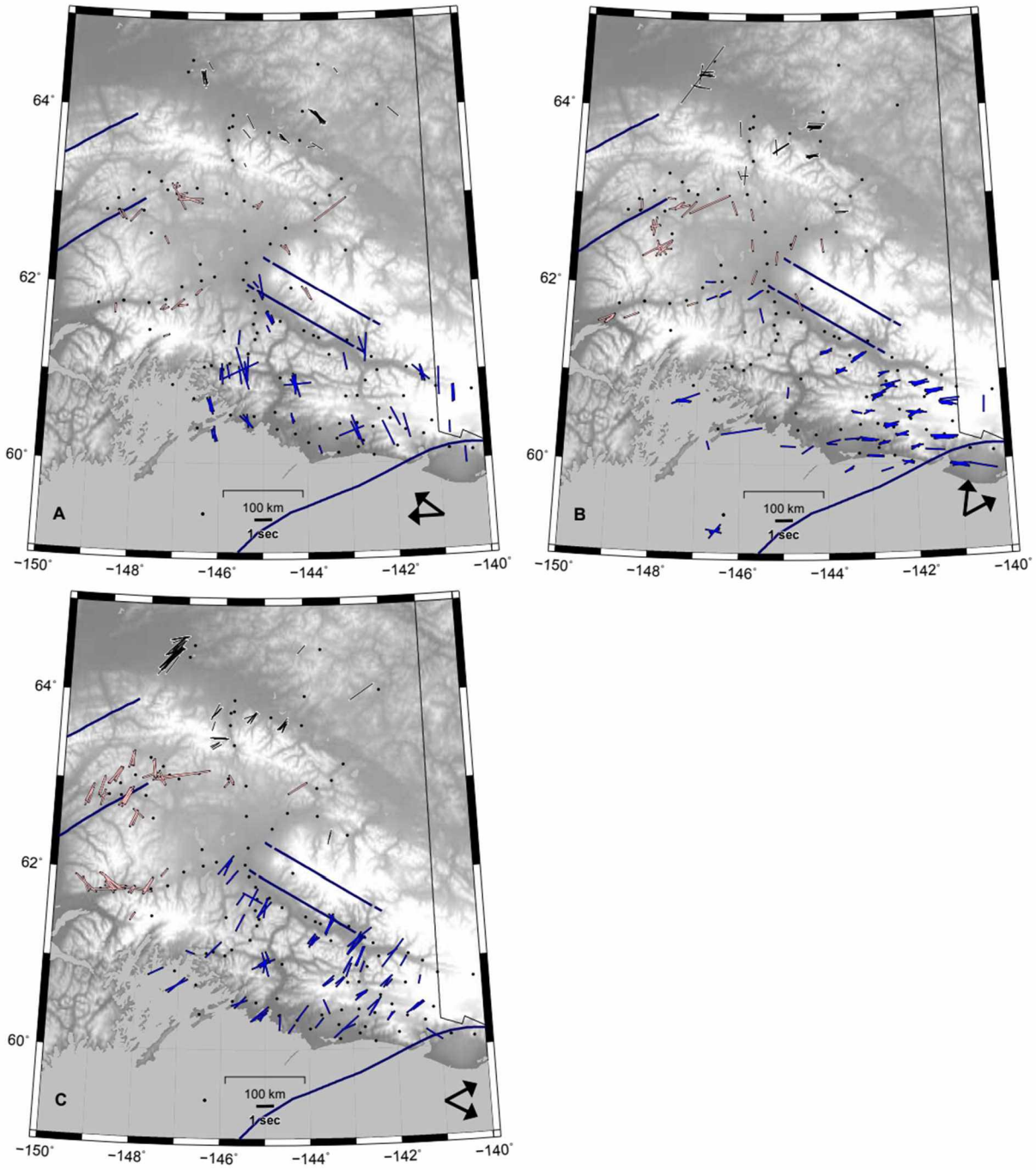

Figure 16: Close ups of the Yakutat Collision, East Central, and Other Regions splitting parameters from different back azimuth bins. This includes results from Christensen and Abers (2010) and Perttu et al. (2014), with the color of the lines matching the color of the corresponding stations in Figure 5 and the dots indicating station locations. The Other Region has been recolored pink in this figure. The thick blue lines are the contours of the subducting slab plotted in increments of 50 km, starting with the trench at 0 km. The arrows in the bottom right corner indicate the range of directions that the waves are arriving from in each plot. A: 90°-130° back azimuth bin of splitting observations. B: 190°-245° back azimuth bin of splitting observations. C: 245°-300° back azimuth bin of splitting observations. Results outside of these bins are not shown in this figure. The splitting observations are plotted as described in Figure 4.

The Yakutat Collision Region (blue diamonds, Fig. 7) is located south of the Wrangell Volcanic Field, bordering the Gulf of Alaska. The entire region is underlain by the accreting Yakutat block. The fast directions are strongly dependent on the back azimuth (Fig. 15a,c) and identical to the East Central Region: waves arriving from the southeast see NW/SE fast directions (average of -10.6°) (Fig. 16a), E/W fast directions (average of 80°) for the southwest (Fig. 16b), and NE/SW fast (average of 32.4°) directions from waves travelling from the west (Fig. 16c). In general, the δts are small, and average to 0.73 seconds. We have seen strong back azimuthal dependencies in regions where the incoming rays are sampling distinctly different anisotropic regimes (i.e. Interior Region above - mantle wedge vs. subslab anisotropy). However, in this case there is not a distinctive tectonic reason for the variation in fast directions. Waves from eastern back azimuths produce fast directions parallel to Pacific plate motion (Fig. 16a), and are similar to the fast directions in the Fairweather-Queen Charlotte Transform Region to the east. However, rays arriving from the west have fast directions that are perpendicular to the Wrangell subduction zone (close to a 90° rotation from the eastern arrivals) (Fig. 16c). For these rays to sample different anisotropy regimes in the mantle, the source would have to be quite deep. Those fast directions from the southwestern back azimuths (Fig. 16b) are clustered near the region of Yakutat collision Elliott et al. (2013) found. It is possible that this collision and the resulting rock fabrics are contributing to the anisotropy. The Yakutat terrane itself may be thick enough to contribute to all the observations as well. Other explanations, such as dipping anisotropy or multiple layers, could explain all the observations, but our limited back azimuthal coverage does not allow us to discern between the various models.

The final region is between the Yakutat Collision, Eastern Kenai, and East Central regions, and is plotted as crosses in Figure 7. We were unable to determine a consistent pattern of fast directions for this so called Other Region (Fig. 17). Results from these stations are sparse with numerous null measurements. Hanna and Long (2013) found a similar chaotic pattern with many null measurements in this area. This region sees the transition from the Pacific subduction zone into the Wrangell subduction zone. At times this has been associated with a rip in the plate with a slab window into the mantle (Fuis et al., 2008), but recently there is compelling evidence for continuous, contorted slab (Bauer et al., 2014; Elliott et al., 2013; Wech, 2016) which connect the two subduction zones.

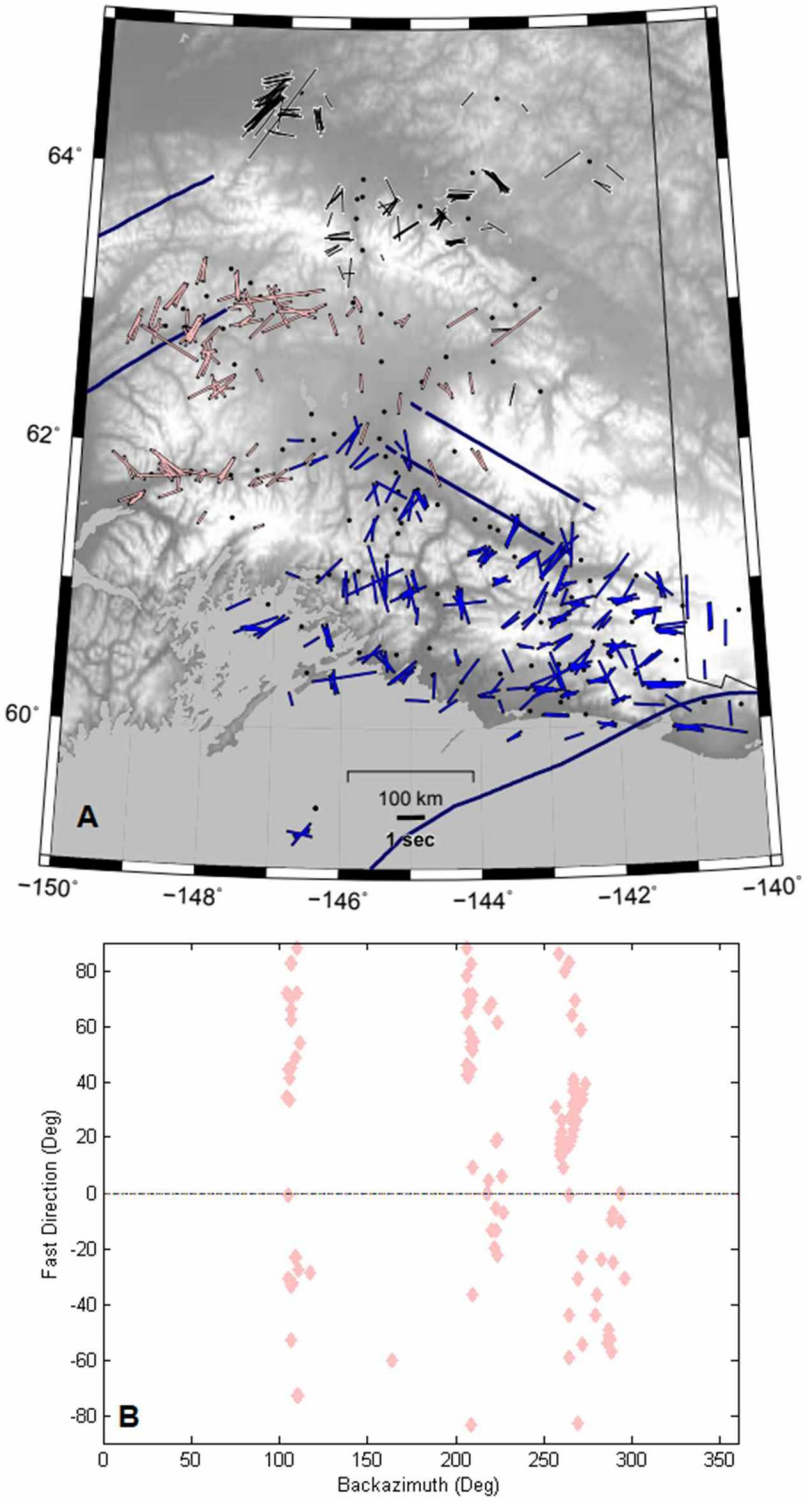

Figure 17: Other Region splitting parameters. A: Close up of the Other, East Central, and Yakutat Collision splitting observations. Map is the same as in Figure 16. B: Back azimuth vs. fast direction plot for the Other Region. There is no coherent back azimuth dependence for the fast directions.

Jadamec and Billen (2012) studied the effect of a slab edge on mantle flow in central Alaska through 3D numerical models. They find that the asthenosphere must locally decouple at subduction zones in order to explain fast directions that are independent of plate motion directions. They show that there should be toroidal flow around the edge of the slab, the extent and magnitude of which varies greatly on the shape and extent of the subducting slab. Of course, in Alaska the connection between the flat lying Pacific slab and the presumably steeper Wrangell subduction zone remains unclear, and this makes modeling the slab geometry in Alaska difficult. Wadati-Benioff zone seismicity truncates at ~148°E, suggesting the edge of the Pacific plate, and there is a distinct lack of deep earthquakes associated with the Wrangell subduction zone. However recent studies (Elliott et al., 2013; Bauer et al., 2014; Wech, 2016) suggest that the plate may be continuous between the two systems. Jadamec and Billen (2012) favored the shorter, shallower slab model, which produced horizontal flow consistent with the shear wave splitting patterns shown in Christensen and Abers (2010), and toroidal flow around the inferred edge of the Pacific plate. New shear wave splitting results do not change this interpretation, in that the fast directions east of the Pacific slab (Fig. 15a) remain difficult to interpret, with many null measurements (Fig. 6).

Our shear wave splitting observations produce a simple model of mantle flow, and our conclusions about the broad mantle flow regimes are plotted in Figures 18 and 19. Away from the subduction zone, mantle flow is in the direction of the North American plate motion (Fig. 18). Close to the subduction zone, the observed anisotropy depends on the back azimuth and subduction zone geometry under the station (Fig. 19). In the flat slab portion of the subduction zone, waves that travel through the mantle wedge see slab parallel flow as the slab acts as a barrier to the North American plate motion direction flow, but waves that travel through thin or no mantle wedge see trench perpendicular flow under the Pacific plate in the direction of absolute plate motion (Figs. 18 and 19). The normal portion of the subduction zone sees consistently slab and trench parallel flow (Figs. 18 and 19). Stations above the mantle wedge see the slab parallel flow in the mantle wedge, while stations sea-ward of the mantle wedge and close to the trench see trench parallel flow (Figs. 18 and 19) under the Pacific plate as the slab acts as a barrier to absolute plate motion direction flow.

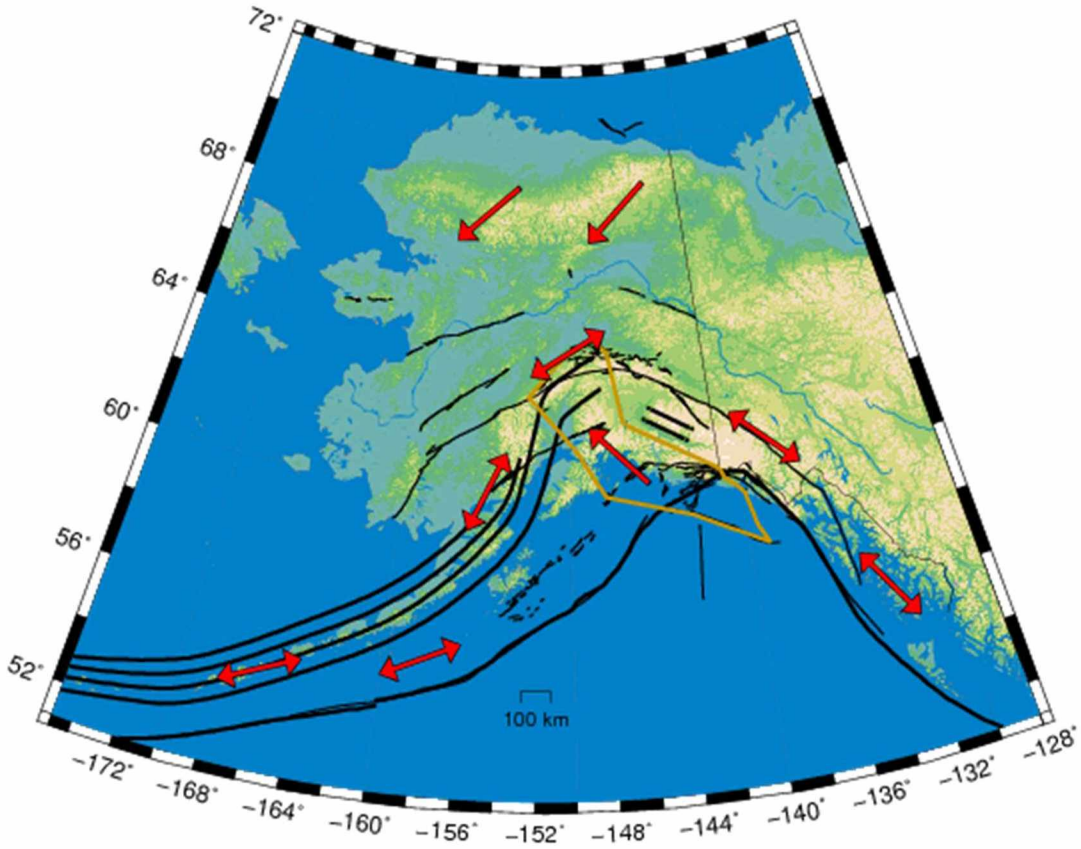

Figure 18: Map depicting our general flow regimes based on the shear wave splitting observations presented in this study. The black and yellow lines are as described in Figure 2, and the red arrows show our inferred mantle flow directions.

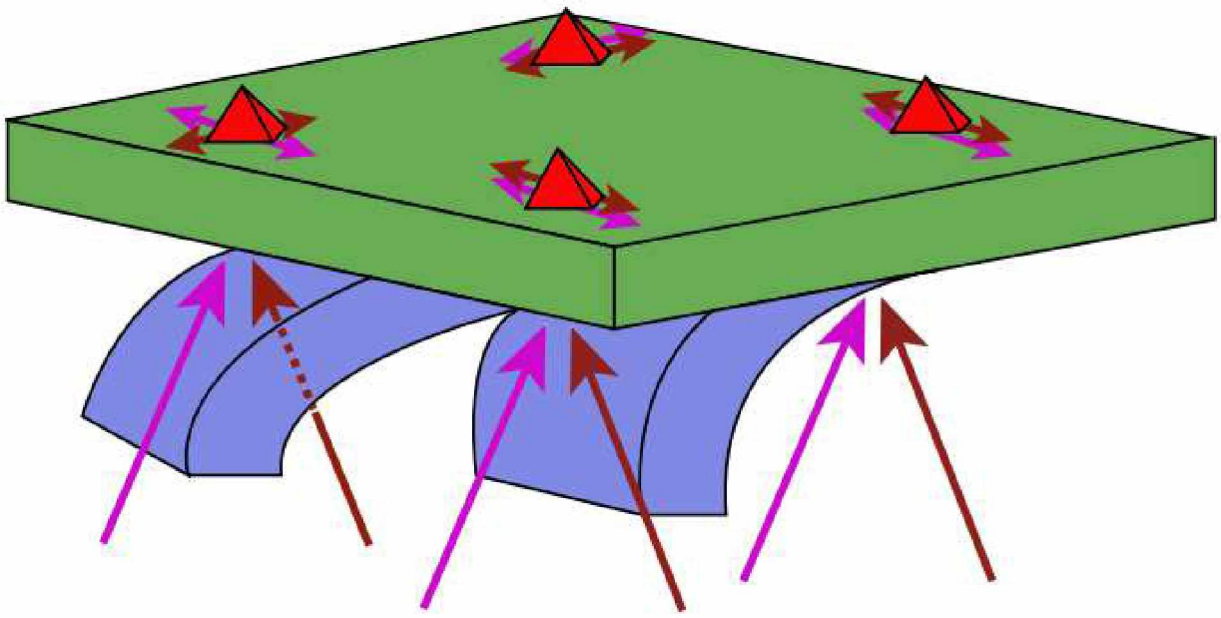

Figure 19: 3D cartoon of fast directions produced from waves from different back azimuths in flat slab and normal slab subduction regimes. The pyramids are stations, and the double-headed arrows are the fast directions observed at that locations. The color of the double-headed arrows matches the color of the ray travelling through the subduction zone.

VI. Conclusion

SKS shear wave splitting results across Alaska indicate that the subducting Pacific plate is the main factor that controls anisotropy in Alaska, in addition to the anisotropy associated with the motions of the North American plate. Northern Alaska is the least complicated region and has fast directions that are parallel to the absolute plate motion direction. However, this region is not immune to the effects of the subduction zone and mantle wedge; the δts in the southernmost portion of this region increase close to the mantle wedge. The subducting Pacific plate likely acts as a barrier to flow in the mantle, diverting flow in the direction of the North American plate motions along the strike of the slab to the southwest. This produces fast directions in the mantle wedge that are parallel to the strike of the subducting slab. The transition from flat slab subduction to normal subduction changes the flow regime seaward of the 70 km contour from trench perpendicular in the flat slab subduction regime to trench parallel in the normal subduction regime. Shear deformation along the transform boundary and large strike-slip faults in Alaska and western Canada cause strike parallel fast directions across a broad region. The last area, and most complicated, is where the Yakutat terrane interacts with North America. The observed shear wave splitting is complicated and is likely seeing a variety of anisotropic regimes, including North American plate motion direction flow, fossil anisotropy, and shear deformation. It is also possible that tilted or layered anisotropy is present in this region, but it is not possible to discern that from our current data set.

VII. References

Anderson, M. L., Zandt, G., Triep, E., Fouch, M., & Beck, S. (2004). Anisotropy and mantle flow in the Chile-Argentina subduction zone from shear wave splitting analysis. *Geophysical Research Letters, 31*, L23608.

Bauer, M. A., Pavlis, G. L., & Landes, M. (2014). Subduction geometry of the Yakutat terrane, southeastern Alaska. *Geosphere, 10,* 1161-1176.

Bemis, S. P., & Wallace, W. K. (2007). Neotectonic framework of the north-central Alaska Range foothills. *Geological Society of America Special Papers, 431,* 549-572.

Bemis, S. P., Weldon, R. J., & Carver, G. A. (2015). Slip partitioning along a continuously curved fault: Quaternary geologic controls on Denali fault system slip partitioning, growth of the Alaska Range, and the tectonics of south-central Alaska. *Lithosphere, 7,* 235-246.

Bird, P. (2003). An updated digital model of plate boundaries. *Geochemistry, Geophysics, Geosystems, 4,* 1027-1079.

Bostock, M. G., & Cassidy, J. F. (1995). Variation in SKS splitting across western Canada. *Geophysical Research Letters, 22*, 5-8.

Bowman, J. R., & Ando, M. (1987). Shear-wave splitting in the upper-mantle wedge above the Tonga subduction zone. *Geophysical Journal of the Royal Astronomical Society, 88,* 25-41.

Bruns, T. R. (1983). Model for the origin of the Yakutat block, an accreting terrane in the northern Gulf of Alaska. *Geology, 11,* 718-721.

Christensen, N. I. (1984). The magnitude, symmetry and origin of upper mantle based on fabric analyses of ultramafic tectonites. *Geophysical Journal of the Royal Astronomical Society*, *76*, 89-111.

Christensen, D. H., & Abers, G. A. (2010). Seismic anisotropy under central Alaska from SKS splitting observations. *Journal of Geophysical Research: Solid Earth, 115,* B04315.

Christesen, G. L., Gulick, S. P. S., van Avendonk, H. J. A., Worthington, L. L., Reece, R. S., & Pavlis, T. L. (2010). The Yakutat terrane: Dramatic change in crustal thickness across the Transition fault, Alaska. *Geology, 38*, 895-898.

Currie, C. A., Cassidy, J. F., Hyndman, R., & Bostock, M. G. (2004). Shear wave anisotropy beneath the Cascadia subduction zone and western North American craton. *Geophysical Journal International, 157*, 341-353.

Eberhart-Phillips, D., Christensen, D. H., Brocher, T. M., Hansen, R., Ruppert, N. A., Haeussler, P. J., & Abers, G. A. (2006). Imaging the transition from Aleutian subduction to Yakutat collision in central Alaska, with local earthquakes and active source data. *Journal of Geophysical Research, 111,* B11303.

Estabrook, C. H., Stone, D. B., & Davies, J. N. (1988). Seismotectonics of Northern Alaska. *Journal of Geophysical Research, 93*, 12026-12040.

Ferris, A., Abers, G. A., Christensen, D. H., & Veenstra, E. (2003). High resolution image of the subducted Pacific (?) plate beneath central Alaska, 50-150 km depth. *Earth and Planetary Science Letters, 214,* 575-588.

Fuis, G. S., Moore, T. E., Plafker, G., Brocher, T. M., Fisher, M. A., Mooney, W. D., Nokleberg, W. J., Page, R. A., Beaudoin, B. C., Christensen, N. I., Levander, A. R., Lutter, W. J., Saltus, R. W., & Ruppert, N.A. (2008). Trans-Alaska Crustal Transect and continental evolution involving subduction underplating and synchronous foreland thrusting. *Geology, 36,* 267-270.

Gripp, A. E., and Gordon, R. G. (2002). Young tracks of hotspots and current plate velocities. *Geophysical Journal International, 150,* 321-261.

Hanna, J., & Long, M. D. (2012). SKS splitting beneath Alaska: Regional variability and implications for subduction processes at a slab edge. *Tectonophysics, 530-531,* 272-285.

Jadamec, M. A., & Billen, M. I. (2012). The role of rheology and slab shape on rapid mantle flow: Three-dimensional numerical models of the Alaska slab edge. *Journal of Geophysical Research, 117,* B02304.

Karato, S., Jung, H., Katayama, I., & Skemer, P. (2008). Geodynamic Significance of Seismic Anisotropy of the Upper Mantle: New Insights from Laboratory Studies. *Annual Reviews of Earth and Planetary Sciences, 36*, 59-95.

Kim, Y., Abers, G. A., Li, J., Christensen, D., Calkins, J., & Rondenay, S. (2014). Alaska Megathrust 2: Imaging the megathrust zone and Yakutat/Pacific plate interface in the Alaska subduction zone. *Journal of Geophysical Research: Solid Earth, 119,* 1924-1941.

Kreemer, C. (2009). Absolute plate motions constrained by shear wave splitting orientations with implications for hot spot motions and mantle flow. *Journal of Geophysical Research, 114,* B10405.

Léon Soto, G., Ni, J. F., Grand, S. P., Sandvol, E., Valenzuela, R. W., Guzmán Speziale, M., Gómez González, J. M., & Dominguez Reyes, T. (2009). Mantle flow in the Rivera-Cocos subduction zone. *Geophysical Journal International, 179*, 1004-1012.

Long, M. D. (2013). Constraints on subduction geodynamics from seismic anisotropy. *Reviews of Geophysics, 51,* 76-112.

Long, M. D., & Becker, T. W. (2010). Mantle dynamics and seismic anisotropy. *Earth and Planetary Science Letters, 297*, 341-354.

Long, M. D., & Silver, P. G. (2009). Mantle flow in subduction systems: The subslab flow field and implications for mantle dynamics. *Journal of Geophysical Research, 114,* B10312.

O'Driscoll, L. J., & Miller, M. S. (2015). Lithospheric discontinuity structure in Alaska, thickness variations determined by Sp receiver functions. *Tectonics, 34*, 694-714.

Page, R. A., Plafker, G., & Pulpan, H. (1995). Block rotation in east-central Alaska: A framework for evaluating earthquake potential?. *Geology, 23*, 629-632.

Perttu, A., Christensen, D., Abers, G., & Song, X. (2014). Insights into mantle structure and flow beneath Alaska based on a decade of observations of shear wave splitting. *Journal of Geophysical Research: Solid Earth, 119*, 8366-8377.

Plafker, G., & Berg, H. C. (1994). Overview of the geology and tectonic evolution of Alaska. *The Geology of North America, v. G-1,* 989-1021.

Polet, J., Silver, P. G., Beck, S., Wallace, T., Zandt, G., Ruppert, S., Kind, R., & Rudloff, A. (2000). Shear wave anisotropy beneath the Andes from the BANJO, SEDA, and PISCO experiments. *Journal of Geophysical Research, 105*, 6287-6304.

Russo, R. M., Silver, P. G., Franke, M., Ambeh, W. B., & James, D. E. (1996). Shear-wave splitting in northeast Venezuela, Trinidad, and the eastern Caribbean. *Physics of the Earth and Planetary Interiors, 95*, 251-275.

Russo, R. M. (2009). Subducted oceanic asthenosphere and upper mantle flow beneath the Juan de Fuca slab. *Lithosphere, 1*, 195-205.

Savage, M. K. (1999). Seismic Anisotropy and Mantle Deformation: What Have We Learned From Shear Wave Splitting?. *Reviews of Geophysics, 37,* 65-106.

Silver, P. G., & Chan, W. W. (1991). Shear Wave Splitting and Subcontinental Mantle Deformation. *Journal of Geophysical Research, 91,* 16429-16454.

Song, T. A., & Kawakatsu, H. (2013). Subduction of oceanic asthenosphere: A critical appraisal in central Alaska. *Earth and Planetary Science Letters, 367,* 82-94.

Stephens, C. D., Fogleman, K. A., Lahr, J.C., & Page, R. A. (1984). Wrangell Benioff zone, southern Alaska. *Geology, 12,* 373-376.

Vinnik, L. P., Makeyeva, L. I., Milev, A., & Usenko, A. Yu. (1992). Global patterns of azimuthal anisotropy and deformation in the continental mantle. *Geophysical Journal International, 111*, 433-447.

Wech, A. G. (2016). Extending Alaska's plate boundary: Tectonic tremor generated by Yakutat subduction, *Geology*, *44,* 587-590.

Wiemer, S., Tytgat, G., Wyss, M., & Duenkel, U. (1999). Evidence for Shear-Wave Anisotropy in the Mantle Wedge beneath South Central Alaska. *Bulletin of Seismological Society of America, 89*, 1313-1322.

Worthington, L. L., Van Avendonk, H. J. A., Gulick, S. P. S., Christeson, G. L., & Pavlis, T. L. (2012). Crustal structure of the Yakutat terrane and the evolution of subduction and collision in southern Alaska. *Journal of Geophysical Research, 117,* B01102.

Wüstefeld, A., & Bokelmann, G. (2007). Null Detection in Shear-Wave Splitting Measurements. *Bulletin of the Seismological Society of America, 97*, 1204-1211.

Wüstefeld, A., Bokelmann, G., Zaroli, C., & Barruol, G. (2007). SplitLab: A shear-wave splitting environment in Matlab. *Computers and Geosciences, 34,* 515-528.

Yang, X., Fischer, K. M., & Abers, G. A. (1995). Seismic anisotropy beneath the Shumagin Islands segment of the Aleutian-Alaska subduction zone. *Journal of Geophysical Research, 100,* 18165-18177.

VIII. Supplemental Files

Supplemental File A: Table of station locations.
This table displays the locations of both the stations analyzed in this study and the stations analyzed in Christensen and Abers (2010) and Perttu et al. (2014), which are separated from each other by a row of asterisks. The name column includes the network and the station name.

Name	Latitude (Deg)	Longitude (Deg)
AK.ANM	64.5646	-165.3732
AK.BAGL	60.4896	-142.0915
AK.BAL	61.0360	-142.3462
AK.BARK	60.4030	-142.4931
AK.BARN	61.0595	-141.6622
AK.BCP	59.9534	-139.6369
AK.BERG	60.3932	-143.7004
AK.BESE	58.5792	-134.8559
AK.BGLC	60.1205	-143.2841
AK.BMR	60.9677	-144.6051
AK.BPAW	64.0997	-150.9873
AK.BRLK	59.7511	-150.9063
AK.BRSE	59.7417	-150.7414
AK.BWN	64.1732	-149.2991
AK.CAPN	60.7683	-151.1539
AK.CAST	63.4188	-152.0844
AK.CCB	64.6453	-147.8053
AK.CHI	55.8218	-155.6225
AK.CHN	54.8310	-159.5895
AK.CHUM	63.8827	-152.3152
AK.CNP	59.5251	-151.2373
AK.COLD	67.2269	-150.2038
AK.CRQ	60.7523	-143.0926
AK.CTG	60.9649	-141.3401
AK.CUT	62.4058	-150.2625
AK.CYK	60.0823	-142.4872
AK.DDM	63.7865	-145.8657
AK.DHY	63.0753	-147.3759
AK.DIV	61.1292	-145.7749
AK.DOT	63.6482	-144.0697
AK.EYAK	60.5487	-145.7500
AK.FALS	54.8564	-163.4175
AK.FIB	61.1656	-150.1775
AK.FID	60.7277	-146.5987
AK.FIRE	61.1426	-150.2164
AK.FYU	66.5657	-145.2342
AK.GAMB	63.7758	-171.7036
AK.GCSA	64.7461	-156.8792
AK.GHO	61.7710	-148.9260

AK.GLB	61.4417	-143.8123
AK.GLI	60.8792	-147.0959
AK.GLM	64.9878	-147.3999
AK.GOAT	60.5805	-144.7292
AK.GRIN	60.2805	-143.3210
AK.GRNC	60.7315	-141.7558
AK.HDA	64.4091	-146.9478
AK.HIN	60.3960	-146.5035
AK.HMT	60.3351	-144.2623
AK.HOM	59.6572	-151.6515
AK.ISLE	60.6024	-142.3406
AK.JIS	58.2758	-134.3848
AK.KHIT	60.4427	-143.2510
AK.KIAG	60.9231	-142.6305
AK.KLU	61.4924	-145.9227
AK.KNK	61.4131	-148.4585
AK.KTH	63.5527	-150.9233
AK.KULT	60.2474	-142.7234
AK.LOGN	60.8240	-141.0048
AK.MCAR	61.3836	-143.0240
AK.MCK	63.7318	-148.9373
AK.MDM	64.9602	-148.2319
AK.MESA	60.1785	-141.9505
AK.MLY	65.0304	-150.7442
AK.NEA	64.5922	-149.0706
AK.NEA2	64.5928	-149.0694
AK.NICH	60.2361	-143.9692
AK.NKA	60.7425	-151.2395
AK.PAX	62.9699	-145.4699
AK.PIN	60.0959	-140.2525
AK.PNL	59.6670	-139.4014
AK.PPD	65.5174	-145.5246
AK.PPLA	62.8962	-152.1894
AK.PS01	70.2580	-148.6141
AK.PS04	68.4215	-149.3568
AK.PS05	66.8133	-150.6646
AK.PS06	65.8545	-149.7369
AK.PS07	65.3106	-148.2791
AK.PS08	64.5422	-146.8221
AK.PS09	63.9299	-145.7682
AK.PS10	63.4229	-145.7684
AK.PS11	62.0789	-145.4751
AK.PS12	61.4749	-145.1458
AK.PTPK	61.1871	-142.4672
AK.PWL	60.8584	-148.3334
AK.RAG	60.3863	-144.6773

AK.RC01	61.0889	-149.7390
AK.RDOG	68.0541	-162.9080
AK.RIDG	63.7399	-144.8462
AK.RKAV	60.2994	-141.3478
AK.RND	63.4056	-148.8602
AK.SAMH	60.1294	-140.7828
AK.SAMN	60.1294	-140.7828
AK.SAW	61.8070	-148.3316
AK.SCM	61.8329	-147.3296
AK.SCRK	63.9761	-143.9905
AK.SGA	60.5341	-145.2082
AK.SII	56.5593	-154.1842
AK.SKN	61.9800	-151.5317
AK.SLK	60.5117	-150.2231
AK.SPIA	57.1766	-170.2477
AK.SSN	61.4636	-150.7467
AK.SSP	60.1791	-142.8388
AK.SWD	60.1043	-149.4526
AK.TABL	60.4399	-141.1443
AK.TGL	60.7541	-142.8292
AK.TNA	65.5598	-167.9267
AK.TRF	63.4502	-150.2893
AK.UNV	53.8452	-166.5045
AK.VMT	61.0830	-146.3680
AK.VRDI	61.2275	-143.4545
AK.WAT1	62.8295	-148.5509
AK.WAT2	62.9628	-148.5855
AK.WAT4	62.8349	-147.9421
AK.WAT5	63.0624	-148.2286
AK.WAT6	62.5808	-147.7400
AK.WAT7	62.8331	-148.8476
AK.WAX	60.4480	-142.8529
AK.WRH	64.4715	-148.0916
AK.YAH	60.3583	-141.7510
AT.AKUT	54.1352	-165.7719
AT.CHGN	56.3014	-158.4142
AT.MENT	62.9380	-143.7194
AT.MID	59.4278	-146.3388
AT.OHAK	57.2225	-153.2875
AT.PMR	61.5922	-149.1308
AT.SIT	57.0569	-135.3244
AT.SKAG	59.4601	-135.3290
AT.SMY	52.7308	-174.1031
AT.SVW2	61.1082	-155.6217
AT.TTA	62.9301	-156.0116
AV.AKBB	54.0975	-165.9338

AV.AKGG	54.1979	-165.9936
AV.AKLV	54.1618	-165.9576
AV.AKMO	54.0903	-166.0126
AV.AKRB	54.1292	-166.0708
AV.AKSA	54.1095	-165.6987
AV.AU22	59.3370	-153.3573
AV.AUL	59.3816	-153.4379
AV.AUSB	59.3330	-153.4284
AV.AUSS	59.3589	-153.4309
AV.AUWS	59.3585	-153.4608
AV.ILBB	64.7714	-146.8865
AV.ILS	59.9570	-153.0703
AV.ILSW	59.9832	-153.1425
AV.ILSZ	54.7249	-163.7129
AV.IVE	60.0163	-153.0185
AV.KABU	58.2702	-155.2843
AV.KAKN	58.2963	-155.0632
AV.MAPS	53.8082	-166.9407
AV.MGOD	53.7938	-166.8780
AV.MNAT	53.8829	-166.6856
AV.MSW	53.9148	-166.7880
AV.NCT	60.5621	-152.9293
AV.OKCE	53.4260	-168.1663
AV.OKNC	53.4559	-168.1257
AV.PS4A	55.3460	-161.8567
AV.RDDF	60.5912	-152.6883
AV.RDJH	60.5905	-152.8058
AV.RDSO	60.4536	-152.7430
AV.RDWB	60.4875	-152.8425
AV.RED	60.4196	-152.7742
AV.SPBG	61.2591	-152.3722
AV.SPCG	61.2913	-152.0228
AV.SPCN	61.2244	-152.1854
AV.SPCP	61.2655	-152.1550
AV.SPCR	61.2003	-152.2091
AV.SPNN	61.3662	-152.7012
AV.WACK	61.9858	-144.3305
AV.WECS	54.5300	-164.7796
CN.DAWY	64.0655	-139.3909
CN.HYT	60.8250	-137.5038
CN.INK	68.3065	-133.5254
CN.WHY	60.6597	-134.8806
CN.YUK2	61.7668	-140.8426
CN.YUK3	61.7755	-140.4595
CN.YUK4	61.4348	-138.5463
CN.YUK5	61.1315	-137.8593

CN.YUK6	60.9432	-138.3626
CN.YUK7	60.5307	-138.1399
CN.YUK8	61.2844	-139.7646
IM.IL31	64.7714	-146.8866
TA.A21K	71.3221	-156.6175
TA.B22K	70.3400	-153.4196
TA.C21K	69.1565	-154.7833
TA.C23K	69.8360	-150.6126
TA.C24K	69.7200	-148.7009
TA.C26K	69.9175	-144.9122
TA.C27K	69.6260	-143.7114
TA.D23K	68.9656	-150.6807
TA.D24K	69.1532	-148.8233
TA.D25K	69.3220	-146.3751
TA.E18K	67.4213	-160.6027
TA.E19K	67.4572	-157.2316
TA.E22K	68.1343	-151.8132
TA.E23K	68.0584	-149.6163
TA.E24K	68.0748	-148.4868
TA.E25K	68.1207	-145.5680
TA.E27K	68.1861	-141.5951
TA.EPYK	66.3701	-136.7191
TA.F17K	66.4420	-161.2502
TA.F19K	66.8332	-157.7728
TA.F20K	67.0486	-155.7251
TA.F21K	67.2221	-153.4830
TA.F22K	67.5076	-152.1790
TA.F24K	67.5187	-147.8871
TA.F25K	67.5933	-145.6430
TA.F26K	67.6946	-144.1455
TA.F28M	67.6136	-139.8717
TA.F31M	67.4410	-133.7420
TA.G17K	65.5011	-160.6514
TA.G19K	66.1434	-157.0870
TA.G21K	66.5156	-153.5058
TA.G22K	66.9214	-151.5073
TA.G23K	66.7108	-150.0239
TA.G24K	66.7004	-147.4754
TA.G25K	66.7653	-146.1013
TA.G26K	66.9498	-143.7848
TA.G27K	66.8088	-141.6549
TA.G29M	66.9116	-138.0223
TA.G30M	66.9808	-136.2216
TA.H17K	64.9370	-159.9126
TA.H18K	65.1527	-158.3633
TA.H19K	65.5276	-156.4494

TA.H20K	65.4924	-154.8808
TA.H21K	65.6571	-152.8050
TA.H22K	65.8937	-151.3773
TA.H23K	65.8251	-149.5432
TA.H24K	65.8371	-147.8781
TA.H25K	66.2670	-145.8197
TA.H25L	66.2670	-145.8187
TA.H27K	66.2305	-141.5265
TA.H29M	66.2191	-138.3689
TA.H31M	65.8052	-134.3426
TA.I17K	63.8864	-160.6950
TA.I21K	65.1800	-151.9822
TA.I23K	65.1479	-149.3603
TA.I26K	65.3064	-143.1541
TA.I27K	65.6035	-141.6153
TA.I28M	65.4483	-139.9355
TA.I29M	65.3609	-138.3063
TA.I30M	65.2225	-136.3767
TA.J14K	62.7492	-163.5540
TA.J18K	63.4650	-156.7154
TA.J19K	63.9940	-155.6214
TA.J20K	64.1767	-154.1467
TA.J25K	64.6130	-145.3697
TA.J26L	64.5012	-143.5636
TA.J29M	64.4530	-138.2158
TA.J30M	64.5753	-136.3304
TA.K15K	62.2938	-161.5308
TA.K17K	62.7161	-158.3014
TA.K20K	63.3569	-154.0700
TA.K24K	63.8036	-145.7784
TA.K27K	64.0292	-142.0758
TA.K29K	63.8433	-137.5201
TA.L15K	61.6780	-161.4869
TA.L18K	62.2195	-156.6886
TA.L19K	62.1816	-154.8543
TA.L20K	62.4787	-153.8798
TA.L26K	63.0254	-143.3478
TA.L27K	63.0618	-141.8275
TA.L29M	63.1090	-138.1290
TA.M14K	60.7515	-161.9600
TA.M15K	60.6947	-160.6884
TA.M17K	61.4009	-157.4375
TA.M18K	61.4907	-155.8242
TA.M19K	61.9037	-154.3915
TA.M20K	61.8823	-153.1318
TA.M22K	61.7531	-150.1205

TA.M23K	61.7929	-147.7262
TA.M24K	62.1067	-146.1750
TA.M26K	62.4013	-142.9963
TA.M27K	62.3579	-141.8780
TA.M29M	62.4435	-138.4624
TA.M30M	62.5763	-136.7935
TA.M31M	62.2024	-134.3906
TA.N14K	59.9237	-161.6852
TA.N16K	60.4742	-158.7690
TA.N18K	60.6801	-155.8897
TA.N19K	60.8132	-154.4838
TA.N20K	61.2001	-152.2089
TA.N25K	61.6061	-144.5982
TA.N30M	61.4593	-137.0885
TA.N31M	61.4862	-135.7796
TA.N32M	61.1512	-133.0818
TA.O14K	59.2533	-161.2638
TA.O16K	59.5938	-158.0932
TA.O17K	59.7733	-157.0946
TA.O18K	59.8542	-155.2080
TA.O19K	60.1952	-154.3201
TA.O20K	60.0815	-152.6240
TA.O22K	60.4814	-149.7241
TA.O28M	60.7718	-140.1906
TA.O29M	60.3024	-138.5755
TA.O30N	60.7704	-136.0906
TA.P16K	59.0314	-157.9906
TA.P17K	59.1953	-156.4394
TA.P18K	59.3922	-155.2292
TA.P19K	59.6524	-153.2319
TA.P29M	59.6304	-137.7381
TA.P30M	60.1218	-136.9598
TA.P32M	59.5898	-133.7147
TA.P33M	60.2114	-132.8174
TA.POKR	65.1171	-147.4335
TA.Q16K	58.6774	-156.6556
TA.Q17K	58.2637	-155.8865
TA.Q18K	58.6484	-155.0086
TA.Q19K	58.9287	-153.6446
TA.Q20K	58.6097	-152.3942
TA.Q23K	59.4296	-146.3399
TA.Q32M	58.9601	-132.2691
TA.R17K	57.6397	-156.3872
TA.R18K	57.5665	-154.4524
TA.R32K	58.2747	-134.5181
TA.R33M	59.3946	-130.9673

TA.S32K	57.4688	-134.5763
TA.T35M	56.9811	-130.2496
TA.TCOL	64.8735	-147.8618
TA.TOLK	68.6408	-149.5724
TA.U33K	56.1146	-133.1210
TA.V35K	55.3279	-131.6150
XV.F1TN	64.6544	-149.1595
XV.F2TN	64.7090	-149.1327
XV.F3TN	64.7716	-149.1465
XV.F5MN	64.8857	-149.1814
XV.F6TP	64.8700	-149.5598
XV.F7TV	64.8537	-149.8256
XV.F8KN	64.7653	-149.9307
XV.FAPT	64.5498	-149.0831
XV.FNN1	64.5716	-149.2178
XV.FNN2	64.5756	-149.4456
XV.FPAP	64.6130	-149.0992
XV.FTGH	64.6917	-148.8279
YG.DEN1	63.0466	-145.9084
YG.DEN3	63.0487	-146.8329
YG.DEN4	63.1710	-147.5435
YG.DEN5	63.2970	-148.1052
YG.GLN2	62.0601	-146.4865
YG.GLN3	61.9872	-146.9537
YG.GLN4	61.4895	-147.6796
YG.LKLO	62.2474	-146.5255
YG.MCR1	61.7157	-144.8952
YG.MCR2	61.4991	-144.0393
YG.MCR3	61.4176	-143.6980
YG.NEB1	62.6228	-143.7135
YG.NEB2	62.5654	-143.4492
YG.RH01	63.6483	-145.8756
YG.RH03	62.8334	-145.4710
YG.RH04	62.6286	-145.4562
YG.RH06	62.2697	-145.4051
YG.RH07	61.9500	-145.3817
YG.RH08	61.8370	-145.2216
YG.RH09	61.7009	-145.1846
YG.RH10	61.5732	-145.2256
YG.RH11	61.4014	-145.1947
YG.RH12	61.2398	-145.3532
YG.RH14	61.0617	-145.9367
YG.RH15	61.1012	-146.2122
YG.TOK1	62.4839	-144.8279
YG.TOK2	62.6620	-144.4506
YG.TOK5	63.2061	-143.0471

ZE.BING	60.5169	-150.7037
ZE.CLAM	60.2376	-151.3934
ZE.CONG	61.0594	-151.3870
ZE.GOOS	61.3936	-149.8535
ZE.HLC1	60.4430	-152.5685
ZE.HLC2	60.5756	-153.0827
ZE.HLC3	60.6012	-153.2768
ZE.HLC5	60.7407	-154.0333
ZE.HOLG	59.8351	-149.7696
ZE.HOPE	60.8733	-149.5967
ZE.JUDD	61.5668	-151.5481
ZE.KALN	60.5006	-151.8871
ZE.LTUW	60.0346	-150.7006
ZE.LTUX	60.1595	-150.8850
ZE.LTUY	60.2216	-151.1153
ZE.MPEN	60.7351	-150.4819
ZE.NNIL	60.0473	-151.6491
ZE.NSKI	60.6622	-151.2772
ZE.SALA	60.7419	-151.7145
ZE.SOLD	60.4642	-151.0817
ZE.WFLS	60.9075	-154.7562
ZE.WFLW	60.9573	-155.1440
ZE.WHIP	60.9654	-150.6320
*	*	*
AK.BRLK	59.7510	-150.9063
AK.CNP	59.5259	-151.2349
AK.FIB	61.1662	-150.1753
AK.HOM	59.6578	-151.6494
AK.KDAK	57.7828	-152.5835
AK.MID	59.4278	-146.3389
AK.OHAK	57.2225	-153.2875
AK.PMR	61.5922	-149.1308
AK.RC01	61.0896	-149.7368
AK.RDJH	60.5911	-152.8036
AK.RDWB	60.4881	-152.8402
AK.SAW	61.8076	-148.3295
AK.SKN	61.9806	-151.5292
AK.SPBG	61.2597	-152.3699
AK.SPCG	61.2919	-152.0205
AK.SPCR	61.2009	-152.2068
AK.SSN	61.4640	-150.7444
AK.SWD	60.1031	-149.4513
XE.AND	64.3306	-149.1996
XE.ANT	63.0992	-149.4831
XE.BYR1	62.6893	-150.2318
XE.CAR	63.5831	-148.8016

XE.CZN	63.1033	-146.6436
XE.DH1	63.3734	-148.3829
XE.DH2	63.2652	-147.8552
XE.DH3	63.0345	-147.1438
XE.EFS	63.5581	-149.7814
XE.FID	62.7622	-150.0691
XE.GNR	63.8345	-148.9780
XE.GOO	63.2286	-149.2705
XE.HURN	62.9991	-149.6064
XE.MCK	63.7323	-148.9368
XE.MHR	62.8603	-149.8648
XE.NNA	64.5797	-149.0786
XE.PVE	62.3551	-150.6640
XE.PVW	62.5277	-150.8039
XE.PYY	62.9094	-149.7117
XE.RCK	64.0412	-149.1660
XE.RND	63.4057	-148.8601
XE.SAN	63.7231	-149.4775
XE.SBL	63.4686	-150.1999
XE.SLM	63.5067	-148.8049
XE.SLT	63.9391	-149.1212
XE.SOB	64.1702	-149.2993
XE.TCE	62.3147	-150.3142
XE.TLKY	62.1500	-150.0609
XE.WOLF	62.5604	-150.2039
XE.WON	63.4621	-150.8543
XE.YAN	63.6559	-148.7749
XR.BMQ	67.8516	-149.8236
XR.CBM	66.2066	-150.2635
XR.CHS	68.0789	-149.5817
XR.FRB	69.7162	-148.6985
XR.GBN	66.7192	-150.6710
XR.GTM	65.4015	-161.2778
XR.ICT	69.0223	-148.8360
XR.LMW	65.5114	-148.5113
XR.LVG	65.5220	-148.5514
XR.NOM	64.5695	-165.3383
XR.PRB	70.2036	-148.4457
XR.RBY	64.7400	-155.4660
XR.SAG	69.4240	-148.6940
XR.TFS	68.6274	-149.5900
XR.WSM	67.3812	-150.1100
XR.YRT	65.8250	-149.5429
YV.ALPI	61.2448	-149.5397
YV.AVAL	60.3755	-149.3468
YV.BIGB	61.5919	-149.8174

YV.BING	60.5169	-150.7040
YV.BLAK	60.7746	-148.4171
YV.BYR2	62.6892	-150.2320
YV.CASW	62.0056	-150.0535
YV.CLRS	60.7458	-148.1780
YV.COOK	60.7990	-151.0176
YV.DEVL	60.5508	-149.5941
YV.DIVI	60.2564	-149.3559
YV.HEAD	60.0084	-149.4095
YV.HOLG	59.8351	-149.7697
YV.HOPE	60.8738	-149.5977
YV.HOPJ	60.7760	-149.4255
YV.INDI	61.0010	-149.4979
YV.KASH	61.8636	-150.0817
YV.KNIK	61.4859	-149.6688
YV.LSKI	60.4832	-150.4617
YV.LSUM	60.6717	-149.4810
YV.MAIN	60.5183	-148.0914
YV.MCDC	61.3427	-149.5454
YV.MOOP	60.4754	-149.3739
YV.MPEN	60.7352	-150.4823
YV.NANC	61.6954	-150.0294
YV.NSKI	60.6622	-151.2770
YV.PERI	60.7098	-147.9534
YV.PORT	60.8049	-148.9316
YV.RUSS	60.4881	-150.0316
YV.SNUG	60.4731	-149.7468
YV.SOLD	60.4641	-151.0815
YV.TUPA	60.8045	-149.1872
YV.USKI	60.4601	-150.1900
YV.WHIT	60.7866	-148.6238

Supplemental File B: Table of events analyzed.
This table shows the event information for all those analyzed in this study. Not all events were analyzed at all stations or networks. The events analyzed in Perttu et al. (2014) and Christensen and Abers (2010) are not shown, and we refer readers to the appropriate papers for further information.

Julian Date	Origin Time	Event Latitude (Deg)	Event Longitude (Deg)	Event Depth (km)	Magnitude (Mw)
2010.003	22:36:28	-8.8000	157.3500	25.0	7.1
2010.005	13:11:43	-9.0500	157.8900	35.0	6.0
2010.009	05:51:31	-9.1300	157.6300	12.0	6.2
2010.017	12:00:01	-57.6600	-65.8800	5.0	6.2
2010.032	22:28:17	-6.1100	154.4600	32.0	6.2
2010.036	06:59:06	-47.9000	99.6600	1.0	6.2
2010.040	01:03:44	-15.0500	-173.4900	10.0	6.1
2010.044	02:34:29	-21.9000	-174.7800	11.0	6.0
2010.046	21:51:48	-7.2200	128.7600	126.0	6.2
2010.058	08:01:24	-37.7700	-75.0500	41.7	7.4
2010.059	11:25:36	-34.9000	-71.6200	46.0	6.2
2010.062	17:44:25	-36.6100	-73.3600	20.0	6.1
2010.063	01:59:49	-33.2200	-72.1200	24.2	6.0
2010.064	11:47:07	-36.6700	-73.3700	18.0	6.6
2010.066	07:05:23	-16.2400	-115.3000	10.0	6.2
2010.070	14:55:28	-34.3200	-71.8000	18.0	7.0
2010.073	00:57:45	-1.6900	128.1300	53.0	6.4
2010.074	11:08:29	-35.8000	-73.1600	14.0	6.2
2010.075	02:21:58	-36.2200	-73.2600	18.0	6.6
2010.085	14:52:07	-27.9500	-70.8200	42.0	6.1
2010.089	16:54:47	13.6700	92.8300	34.0	6.6
2010.095	10:05:46	-0.1900	125.0000	35.0	6.1
2010.096	22:15:02	2.3800	97.0500	31.0	7.8
2010.101	08:45:12	-5.2000	152.4300	41.0	5.4
2010.107	23:15:22	-6.6700	147.2900	53.0	6.2
2010.111	17:20:29	-15.2700	-173.2200	35.0	6.1
2010.123	23:09:38	-38.2700	-74.3100	22.9	6.2
2010.125	16:29:03	-4.0500	101.1000	27.0	6.5
2010.126	02:42:48	-18.0600	-70.5500	37.0	6.2
2010.129	05:59:42	3.7500	96.0200	38.0	7.3
2010.139	04:15:44	-5.0800	-77.5400	139.3	6.0
2010.143	22:46:52	-13.9300	-74.3600	101.4	6.1
2010.144	16:18:29	-8.0800	-71.5600	581.2	6.4
2010.147	17:14:47	-13.7000	166.6400	31.0	7.2
2010.151	19:51:56	11.1200	93.4500	112.0	6.5
2010.163	19:26:51	7.8800	91.9400	35.0	7.5
2010.167	03:06:02	-2.3900	136.6300	13.0	6.2
2010.175	05:32:27	-5.5100	151.1600	40.0	6.1
2010.177	05:30:20	-10.6300	161.4500	35.0	6.7

2010.181	04:31:02	-23.3100	179.1200	581.4	6.4
2010.183	06:04:03	-13.6400	166.4900	29.0	6.3
2010.193	00:11:21	-22.1500	-68.2000	115.0	6.2
2010.195	08:32:22	-38.0700	-73.3100	22.0	6.6
2010.199	13:04:09	-5.9700	150.4300	28.0	6.9
2010.201	19:18:22	-5.9100	150.7000	35.0	6.3
2010.202	09:16:04	3.0400	128.2200	100.0	6.1
2010.204	22:08:11	6.7200	123.4100	607.1	7.3
2010.205	05:35:01	6.2200	123.5200	553.0	6.6
2010.210	07:31:57	6.5300	123.2500	627.4	6.6
2010.215	12:08:26	1.2400	126.2100	41.0	6.3
2010.216	07:15:34	-5.5000	146.8100	225.6	6.5
2010.222	04:52:40	-14.0300	-73.0900	94.0	5.1
2010.224	11:54:16	-1.2700	-77.3100	206.7	7.1
2010.227	15:09:29	-5.6900	148.3400	174.7	6.3
2010.228	03:30:53	-17.7600	65.6500	9.8	6.3
2010.232	17:56:14	-6.5700	154.2500	19.0	6.1
2010.246	16:35:48	-43.5300	171.8100	12.0	7.0
2010.247	08:52:04	-17.3700	-174.0000	69.0	6.0
2010.250	16:13:32	-15.8800	-179.3000	10.0	6.3
2010.251	11:37:32	-20.6700	169.8200	10.0	6.3
2010.252	07:28:02	-37.0300	-73.4100	16.0	6.2
2010.272	17:11:26	-4.9600	133.7600	26.0	7.0
2010.281	05:43:08	2.8300	128.2300	116.0	6.2
2010.298	14:42:23	-3.4900	100.0800	20.1	7.8
2010.303	15:18:33	-56.5900	-142.2900	10.0	6.3
2010.307	23:34:43	-20.4700	-174.2800	19.2	6.1
2010.314	04:05:24	-45.4600	96.3900	10.0	6.5
2010.327	09:01:07	-5.9600	148.9700	68.0	6.1
2010.336	02:51:35	-5.7100	153.6100	9.2	5.2
2010.347	01:14:42	-6.5300	155.6500	135.8	6.2
2010.354	18:41:59	28.4000	59.1700	12.0	6.5
2010.359	13:16:37	-19.7000	167.9400	16.0	7.3
2010.362	08:34:18	-23.4100	-179.8000	551.0	6.3
2010.363	06:54:20	-19.6600	168.1400	16.0	6.3
2011.001	09:56:58	-26.7900	-63.0900	576.8	7.0
2011.002	20:20:18	-38.3700	-73.3500	24.0	7.1
2011.005	06:46:15	-22.2600	171.6300	112.2	6.1
2011.009	10:03:44	-19.1600	168.3100	24.0	6.5
2011.013	16:16:42	-20.6300	168.4700	9.0	6.9
2011.018	20:23:24	28.7800	63.9400	68.0	7.2
2011.026	15:42:30	2.2000	96.8300	23.0	6.0
2011.027	08:38:29	28.1900	59.0100	12.0	6.2
2011.031	06:03:27	-22.0100	-175.6200	76.0	6.0
2011.035	13:53:44	24.6400	94.6800	66.0	6.3
2011.038	19:53:44	-7.1600	155.1800	428.8	6.5

2011.041	14:39:28	4.2000	122.9700	523.2	6.5
2011.042	20:05:31	-36.4700	-73.1200	27.6	6.8
2011.043	17:57:57	-20.8900	-175.6700	89.6	6.1
2011.045	03:40:10	-35.3800	-72.8300	21.0	6.6
2011.046	13:33:53	-2.5000	121.4800	16.2	6.1
2011.052	23:51:43	-43.6000	172.7100	5.0	6.1
2011.053	00:04:19	-43.5900	172.6500	5.9	5.5
2011.060	00:53:46	-29.7000	-111.9800	10.0	6.1
2011.065	12:31:60	-18.0400	-69.3400	118.0	6.3
2011.066	00:09:37	-10.3500	160.7700	22.0	6.4
2011.068	21:24:50	-5.9900	149.7600	29.0	6.3
2011.069	17:08:37	-6.8700	116.7200	510.6	6.6
2011.076	02:48:00	-17.2700	167.8300	17.0	6.2
2011.083	13:55:12	20.6900	99.8400	8.0	6.8
2011.085	22:49:42	-15.8500	-179.4100	10.0	6.0
2011.090	00:11:58	-16.5400	-177.5200	15.5	6.4
2011.091	13:29:11	35.6600	26.5600	59.9	6.1
2011.093	20:06:40	-9.8500	107.6900	14.0	6.7
2011.108	13:03:03	-34.3400	179.8700	86.0	6.5
2011.113	04:16:55	-10.3800	161.2000	79.0	6.8
2011.114	23:07:52	-4.5900	122.7700	8.0	6.1
2011.130	08:55:09	-20.2400	168.2300	11.0	6.8
2011.135	13:08:13	0.5700	-25.6500	10.0	6.1
2011.152	12:55:22	-37.5800	-73.6900	21.0	6.3
2011.156	11:51:12	-55.8400	146.6200	3.0	6.4
2011.164	14:31:23	2.5200	126.4600	61.1	6.4
2011.167	00:03:36	-5.9300	151.0400	16.0	6.3
2011.171	16:36:01	-21.7000	-68.2300	128.0	6.5
2011.172	02:04:16	-11.4800	165.5500	14.0	6.0
2011.175	06:33:08	-10.9300	165.9300	72.1	6.1
2011.177	12:16:39	-2.3800	136.6300	17.0	6.4
2011.187	19:03:18	-29.5400	-176.3400	17.0	7.6
2011.192	20:47:04	9.5100	122.1700	19.0	6.5
2011.210	07:42:23	-23.7800	179.7600	523.0	6.7
2011.212	14:34:47	-17.0200	171.5800	10.0	6.1
2011.228	11:03:58	-2.3300	128.0000	35.0	6.0
2011.231	03:54:27	-16.5200	-177.0000	407.9	6.2
2011.232	18:19:24	-18.3100	168.2200	28.0	7.0
2011.234	20:12:21	-6.2800	104.0500	29.0	6.1
2011.236	17:46:12	-7.6400	-74.5300	147.0	7.0
2011.242	06:57:42	-6.3600	126.7600	469.6	6.9
2011.244	06:14:39	-12.3600	166.6600	39.0	6.0
2011.245	13:47:10	-28.4000	-63.0700	577.8	6.7
2011.246	22:55:41	-20.6700	169.7200	185.1	7.0
2011.248	17:55:11	2.9600	97.8900	91.0	6.7
2011.258	07:53:19	-35.3100	-179.0300	10.0	6.0

2011.261	12:40:52	27.7200	88.1400	50.0	6.9
2011.265	23:07:04	-15.4400	-175.3100	10.0	6.4
2011.280	08:58:29	-32.5400	-179.0400	34.0	6.1
2011.286	03:16:30	-9.3500	114.5900	39.0	6.2
2011.287	03:35:15	-6.5700	147.8800	37.0	6.5
2011.291	05:05:06	-5.7800	151.0400	26.0	6.0
2011.294	17:57:16	-28.9900	-176.2400	33.0	7.4
2011.306	14:59:28	-55.2900	-128.8400	10.0	6.2
2011.315	10:41:38	-55.9800	-124.4400	10.0	6.0
2011.326	18:48:16	-15.3600	-65.0900	549.9	6.6
2011.332	12:26:46	-5.4800	153.7200	25.0	6.1
2011.333	23:44:28	-20.0000	-176.0900	231.9	5.1
2011.334	00:27:07	15.4500	119.0000	9.0	6.0
2011.341	22:23:10	-27.9000	-70.9200	20.0	6.1
2011.347	07:52:12	0.0400	123.0300	161.0	6.1
2011.348	05:04:59	-7.5600	146.8000	140.9	7.1
2011.360	04:48:09	-16.2000	-173.8600	90.0	6.0
2012.009	04:07:15	-10.6200	165.1600	28.0	6.4
2012.010	18:36:59	2.4300	93.2100	19.0	7.2
2012.015	13:40:20	-60.9500	-56.1100	8.0	6.6
2012.023	16:04:53	-36.4100	-73.0300	20.0	6.1
2012.024	00:52:05	-24.9800	178.5200	580.3	6.4
2012.030	05:11:01	-14.1700	-75.6300	43.0	6.4
2012.033	13:34:41	-17.8300	167.1300	23.0	7.0
2012.034	03:46:21	-17.3800	167.2800	8.0	6.1
2012.036	00:15:39	-18.8900	168.9200	145.0	6.1
2012.037	03:49:13	10.0000	123.2100	11.0	6.7
2012.045	07:33:14	-49.7100	-116.2100	8.1	5.1
2012.057	05:08:54	-24.6500	-177.0700	10.0	5.2
2012.063	12:19:55	-22.1400	170.3400	14.0	6.6
2012.065	07:46:10	-28.2500	-63.2900	553.9	6.1
2012.069	07:09:51	-19.1200	169.6100	16.0	6.6
2012.074	21:13:08	-5.5900	151.0400	28.0	6.2
2012.080	17:56:19	-3.8100	140.2700	66.0	6.3
2012.081	22:15:06	-6.2400	145.9600	118.0	6.6
2012.085	22:37:06	-35.2000	-72.2200	40.7	7.1
2012.102	08:38:37	2.3300	93.0600	20.0	8.6
2012.105	10:56:19	-57.6800	-65.3100	15.0	6.2
2012.106	05:57:40	2.5800	90.2700	25.0	6.3
2012.108	03:50:16	-32.6200	-71.3600	29.0	6.7
2012.112	01:16:53	-1.6200	134.2800	16.0	6.7
2012.119	10:08:08	-18.6800	-174.7100	134.7	6.7
2012.135	10:00:40	-17.6400	-69.5700	105.7	6.3
2012.139	02:00:40	-44.8100	-80.1600	10.0	6.3
2012.144	22:59:53	-50.4200	139.5200	10.0	6.0
2012.149	05:07:24	-28.0400	-63.0900	586.9	6.7

2012.159	16:03:19	-15.8800	-72.4100	110.0	6.2
2012.162	12:44:17	36.4200	28.8800	35.0	6.1
2012.175	04:34:53	3.0100	97.9000	95.0	6.1
2012.185	10:36:16	-40.0200	173.7600	229.8	6.3
2012.188	02:28:22	-14.6600	167.3400	160.1	6.4
2012.207	00:27:45	2.7100	96.0400	22.0	6.4
2012.208	05:33:33	-17.5900	66.3900	20.0	6.6
2012.215	09:38:31	-8.4100	-74.2600	144.6	6.0
2012.231	09:41:53	-1.3200	120.1000	10.0	6.3
2012.232	22:09:03	-28.8400	-13.0200	10.0	5.1
2012.239	15:05:37	2.1900	126.8400	91.1	6.6
2012.244	12:47:33	10.8100	126.6400	28.0	7.6
2012.247	18:23:05	-10.7100	113.9300	14.0	6.3
2012.249	13:09:10	-12.4800	166.5100	27.0	6.0
2012.252	10:51:44	-3.1800	135.1100	21.0	6.1
2012.258	04:51:47	-3.3200	100.5900	19.0	6.3
2012.282	11:43:31	-4.4700	129.1300	10.0	6.2
2012.283	12:32:10	-60.3300	153.7000	10.0	6.6
2012.286	00:31:28	-4.8900	134.0300	13.0	6.6
2012.291	04:42:30	4.2300	124.5200	326.0	6.0
2012.294	23:00:33	-13.5500	166.5600	36.0	6.2
2012.307	18:17:33	9.2100	126.1600	37.0	6.1
2012.315	14:57:51	-8.8700	-75.0700	129.0	6.0
2012.316	01:12:39	23.0000	95.8900	13.7	6.9
2012.318	04:31:27	-45.7600	-77.0500	9.0	6.0
2012.319	19:02:06	-29.1200	-71.1900	63.0	6.2
2012.334	10:37:42	-20.7200	-177.1600	285.5	5.3
2012.337	00:54:23	-16.9800	167.6500	32.0	6.1
2012.342	18:19:06	-38.4700	176.1000	163.0	6.3
2012.345	16:53:09	-6.5300	129.8200	155.0	7.1
2012.346	06:18:27	0.5300	126.2300	30.0	6.0
2012.350	19:30:02	-4.6300	153.0200	52.0	6.1
2012.352	09:16:31	-0.6500	123.8100	44.2	6.1
2012.356	22:28:09	-14.3400	167.2900	200.7	6.7
2013.015	16:09:37	-62.5700	-161.4300	10.0	6.1
2013.021	22:22:53	4.9300	95.9100	12.0	6.1
2013.030	20:15:43	-28.0900	-70.6500	45.0	6.8
2013.031	03:33:44	-10.6400	166.3700	9.0	6.1
2013.032	22:16:34	-10.9000	165.3800	10.0	6.4
2013.037	23:39:01	-11.7500	164.7200	10.0	5.1
2013.038	00:30:11	-11.6600	164.9400	8.0	6.0
2013.039	11:12:12	-10.8400	165.9700	12.0	6.8
2013.040	21:02:23	-10.9900	165.7400	18.0	6.6
2013.047	04:37:36	5.8100	125.7500	105.0	6.2
2013.053	12:01:58	-27.9300	-63.1000	575.2	6.1
2013.069	22:51:51	-6.6000	148.1700	28.0	6.5

2013.083	08:13:45	-20.7600	173.3700	10.0	6.1
2013.096	04:42:36	-3.5200	138.4800	66.0	7.0
2013.099	11:52:50	28.4300	51.5900	12.0	6.3
2013.103	22:49:51	-19.1400	169.5400	280.2	6.0
2013.104	01:32:23	-6.4700	154.6100	31.0	6.5
2013.106	10:44:20	28.0300	62.0000	80.0	7.7
2013.116	06:53:29	-28.6800	-178.9200	351.0	6.2
2013.131	02:08:09	26.5600	57.7700	15.0	6.2
2013.140	09:49:05	-44.8700	-80.7500	10.0	6.3
2013.143	17:19:05	-23.0100	-177.2300	173.7	7.4
2013.156	04:47:26	-11.4000	166.3000	39.0	6.0
2013.164	16:47:23	-10.0000	107.2400	9.0	6.6
2013.166	11:20:36	-33.8500	179.4000	195.0	6.0
2013.167	21:39:06	34.3500	25.1600	19.0	6.1
2013.175	22:04:14	10.7000	-42.5900	10.0	6.5
2013.183	07:37:03	4.6400	96.6700	13.0	6.1
2013.185	17:15:55	-7.0300	155.7300	29.0	6.0
2013.187	05:05:07	-3.2700	100.5600	21.0	6.1
2013.188	20:30:07	-6.0300	149.7100	56.0	6.6
2013.202	05:09:32	-41.7000	174.3400	17.0	6.5
2013.207	07:07:16	-15.3800	167.6900	124.0	6.1
2013.223	23:58:46	30.0800	97.9200	10.0	5.1
2013.224	04:16:48	-30.6300	-179.6800	340.6	6.2
2013.228	02:45:28	-41.7600	174.0200	9.1	5.6
2013.240	02:54:42	-27.7500	179.6200	480.3	6.2
2013.244	11:52:30	-7.4400	128.2200	112.0	6.5
2013.264	01:39:15	-7.2600	119.9600	536.8	6.1
2013.267	11:29:48	26.9700	65.5200	15.0	7.8
2013.268	06:51:25	-50.0100	-113.7700	10.0	6.0
2013.271	07:34:07	27.2600	65.5900	14.8	6.8
2013.273	05:55:56	-30.8800	-178.3800	42.1	6.4
2013.277	17:26:14	-38.6100	78.3700	12.7	6.4
2013.279	21:18:49	-19.7300	169.1000	79.3	5.0
2013.284	21:25:00	-30.6600	-178.4800	151.0	6.2
2013.285	13:11:53	35.5100	23.2500	40.0	6.8
2013.288	00:12:32	9.8800	124.1200	19.0	7.1
2013.289	10:30:59	-6.4500	154.9300	35.0	6.8
2013.303	02:29:12	-35.4400	-73.1900	39.2	5.9
2013.304	23:03:59	-30.3000	-71.5600	29.0	6.5
2013.306	15:52:46	-23.6300	-112.5900	10.0	6.0
2013.317	23:45:48	-60.2800	-47.1200	11.1	6.0
2013.320	03:34:31	-60.2600	-47.0600	10.0	6.9
2013.321	09:04:56	-60.2700	-46.4000	10.0	7.8
2013.323	13:32:51	2.6400	128.4300	38.0	6.1
2013.327	07:48:32	-17.1200	-176.5400	371.0	6.5
2013.329	06:27:33	-53.9400	-55.0000	11.8	6.9

2013.335	01:24:14	-7.0100	128.4100	10.0	6.5
2014.001	16:03:30	-13.8700	167.2000	196.2	6.5
2014.020	02:52:46	-40.6300	175.7800	28.0	6.3
2014.021	01:29:13	-15.2500	-175.0500	10.0	6.2
2014.025	05:14:21	-7.9800	109.2500	89.1	6.1
2014.026	13:55:43	38.1700	20.4300	12.4	6.1
2014.033	09:26:37	-32.9100	-177.8200	40.4	6.4
2014.034	03:08:46	38.2900	20.3400	13.7	6.1
2014.038	08:40:13	-15.0600	167.3400	117.7	6.5
2014.064	09:56:59	-14.7300	169.8200	636.8	6.3
2014.070	22:03:11	-3.1100	148.4800	10.0	6.1
2014.074	08:59:21	-14.1100	-76.3200	15.0	6.2
2014.075	21:16:31	-19.9200	-70.6300	20.0	6.7
2014.076	05:11:35	-20.0000	-70.8700	17.0	6.4
2014.080	13:41:08	7.7700	94.3200	10.0	6.4
2014.081	12:59:58	-19.7700	-70.9400	15.2	6.3
2014.082	18:19:59	-19.7700	-70.9500	6.2	6.2
2014.085	03:29:37	-26.0900	179.2800	493.1	6.4
2014.091	23:46:47	-19.6400	-70.8200	20.1	8.1
2014.093	01:58:31	-20.2700	-70.5600	22.8	6.6
2014.094	01:37:51	-20.6200	-70.7400	20.0	6.3
2014.101	00:01:44	-20.7500	-70.7200	17.5	6.2
2014.102	05:24:26	-7.1200	155.2400	35.0	6.1
2014.103	13:25:04	-11.1300	162.0400	35.0	6.6
2014.107	15:06:51	-62.8600	155.6300	17.5	6.2
2014.108	04:13:12	-11.1500	164.8100	10.0	6.1
2014.109	01:04:03	-6.6800	155.0900	24.4	6.6
2014.110	00:15:59	-7.1700	155.3100	18.1	6.2
2014.116	06:02:20	-20.7100	-174.7200	39.4	6.1
2014.121	06:36:35	-21.5000	170.3500	105.3	6.6
2014.124	09:15:53	-24.6400	179.0800	527.6	6.6
2014.125	11:08:44	19.7000	99.6800	7.4	6.2
2014.126	20:52:30	-36.3000	-96.6900	13.8	6.3
2014.132	18:38:38	-49.9700	-114.6700	8.2	6.4
2014.135	10:16:47	9.4200	122.1600	53.2	6.3
2014.138	01:02:29	4.2600	92.7500	9.8	6.1
2014.141	16:21:54	18.2000	88.0200	44.3	6.1
2014.165	11:11:00	-10.0600	91.0600	7.1	6.5
2014.170	09:38:37	-19.9600	-70.9400	19.3	5.8
2014.174	20:06:20	-29.9600	-177.5200	20.0	6.7
2014.180	15:52:23	-14.9100	-175.2400	10.0	6.5
2014.183	05:53:31	-62.2700	155.0900	16.1	6.0
2014.184	19:50:05	-30.5300	-176.5300	20.0	6.3
2014.185	15:00:26	-6.2000	152.8200	10.0	6.4
2014.186	09:39:30	2.0000	97.0100	30.0	6.1
2014.189	12:56:27	-17.6200	168.3600	114.0	6.2

2014.195	07:59:58	5.7000	126.5300	22.5	6.3
2014.200	12:27:09	-15.8000	-174.4000	219.8	6.2
2014.202	14:54:41	-19.7800	-178.4400	616.1	6.9
2014.210	13:27:40	-3.4700	146.6800	6.9	6.1
2014.218	11:45:23	-7.2700	128.0500	10.0	6.2
2014.230	02:32:05	32.7400	47.6700	10.0	6.2
2014.235	22:32:24	-32.7100	-71.4000	35.0	6.4
2014.236	23:21:46	-14.5900	-73.5800	101.0	6.8
2014.247	05:33:46	-21.4000	-173.2600	11.8	6.0
2014.249	06:53:14	-26.6200	-114.4600	10.0	6.1
2014.253	02:46:06	-0.1900	125.1700	30.0	6.3
2014.267	11:16:12	-23.8500	-66.5500	189.3	6.2
2014.268	09:13:51	-9.4800	156.3900	10.0	6.1
2014.280	13:49:40	23.3900	100.4900	10.9	6.2
2014.282	02:14:33	-32.1200	-110.7800	15.5	6.9
2014.301	03:15:43	-15.1900	-174.6600	35.0	6.0
2014.305	10:59:55	-31.8200	-111.1800	10.0	6.0
2014.306	17:17:03	-61.5600	153.7300	10.0	6.0
2014.307	08:23:55	4.6600	-32.6600	10.0	5.6
2014.311	03:33:55	-6.0400	148.2100	43.2	6.6
2014.319	02:31:41	1.9300	126.5500	35.0	7.1
2014.320	22:33:23	-37.6700	179.6600	35.0	6.7
2014.325	10:10:20	2.2800	127.0600	38.1	6.6
2014.330	14:33:43	1.9800	126.5500	41.1	6.8
2014.336	04:53:46	5.9900	61.3200	10.0	5.4
2014.340	22:05:11	-6.1200	130.4800	117.3	6.1
2014.341	01:22:01	-6.5400	154.4600	10.0	6.5
2014.355	11:34:15	2.1200	126.6500	54.7	6.4
2014.363	09:29:42	8.6000	121.5000	37.8	6.2
2014.364	21:17:24	-20.3400	-178.5500	598.2	6.0
2015.007	05:07:08	5.8300	-82.6500	10.0	6.5
2015.023	03:47:27	-17.0000	168.5300	218.5	6.8
2015.028	02:43:20	-20.9100	-178.3500	483.6	6.2
2015.030	17:57:58	-21.2500	170.1600	15.1	6.0
2015.033	10:49:49	-32.7200	-67.0600	172.3	6.3
2015.042	18:57:19	-23.1200	-66.6000	190.8	6.7
2015.047	22:00:53	-55.5300	-28.2400	10.0	6.3
2015.049	09:32:27	-10.7300	164.1500	10.0	6.1
2015.050	13:18:32	-16.4400	168.1200	10.0	6.4
2015.058	13:45:05	-7.2900	122.5300	552.3	7.0
2015.062	10:37:31	-0.7700	98.7100	37.7	6.2
2015.065	08:22:19	-41.3500	80.5200	10.0	6.0
2015.069	20:55:43	6.8300	-73.0100	147.2	6.3
2015.074	23:17:17	-0.5100	122.3200	31.5	6.1
2015.076	22:12:29	1.6600	126.4900	45.8	6.3
2015.077	18:27:28	-36.1000	-73.6300	10.0	6.1

2015.082	04:51:37	-18.3800	-69.1500	120.9	6.4
2015.088	23:48:31	-4.7600	152.5600	40.0	7.4
2015.089	08:48:26	-15.5200	-172.9400	15.5	6.5
2015.090	12:10:43	-10.9100	162.4500	47.6	5.7
2015.097	00:46:18	-15.2000	-173.2200	10.0	6.4
2015.106	18:07:43	35.1400	26.8200	20.0	6.1
2015.107	15:52:52	-15.9100	-178.5900	10.0	6.5
2015.112	22:57:16	-12.0200	166.4200	72.0	6.3
2015.114	03:36:43	-42.0600	173.0000	55.0	6.0
2015.115	06:45:21	28.1900	84.8600	14.6	6.7
2015.116	07:09:10	27.7800	86.0000	17.3	6.8
2015.118	16:39:39	-20.8700	-178.6400	579.3	6.1
2015.120	10:45:05	-5.3900	151.8200	48.9	6.6
2015.121	08:06:05	-5.2000	151.8000	57.0	6.7
2015.123	22:32:42	-5.5500	151.7200	35.0	6.0
2015.125	01:44:05	-5.4700	151.8900	42.0	7.4
2015.127	07:10:22	-7.2300	154.5500	23.2	7.0
2015.132	07:36:54	27.6200	86.1700	15.0	6.2
2015.135	20:26:56	-2.6500	102.1800	149.9	6.1
2015.139	15:25:22	-54.3000	-132.1100	12.1	6.6
2015.140	00:30:52	-19.3000	-175.4600	180.3	6.0
2015.142	21:45:19	-11.0700	163.6800	9.9	6.9
2015.144	04:53:23	-16.8300	-14.1900	10.0	6.3
2015.150	17:18:40	-15.7400	-173.3200	50.8	6.0
2015.155	23:15:44	6.0100	116.5600	10.0	6.0
2015.161	13:52:09	-22.4100	-68.3300	121.6	6.1
2015.163	11:07:07	-15.6900	-173.0600	41.0	6.0
2015.167	06:17:01	-20.4100	-178.9100	653.0	6.0
2015.168	12:51:33	-35.3600	-17.3900	10.0	6.9
2015.171	02:10:06	-36.3300	-73.8200	10.0	6.4
2015.172	21:28:17	-20.4600	-178.3500	561.4	6.0
2015.176	18:45:57	-32.0800	-178.1400	10.0	5.9
2015.181	03:39:29	-5.4500	151.6000	35.0	6.0
2015.182	19:35:21	-10.9900	162.5600	8.9	5.9
2015.184	06:43:22	10.1700	125.9000	33.0	6.1
2015.191	04:12:42	-9.3100	158.4200	10.0	6.7
2015.197	15:16:32	13.8800	-58.5100	10.0	6.5
2015.199	02:27:34	-10.4400	165.1700	10.0	6.9
2015.208	21:41:21	-2.6800	138.5100	48.0	7.0
2015.218	23:59:45	-26.4800	-178.3000	264.3	6.0
2015.222	04:12:14	-9.3200	158.0300	10.0	6.6
2015.224	18:19:17	-9.2800	157.9100	10.0	5.7
2015.225	10:39:53	-37.0300	78.0600	10.0	6.0
2015.227	07:47:07	-10.9000	163.8800	6.3	6.4
2015.236	09:41:26	-30.8800	-178.3200	220.8	6.0
2015.250	09:13:59	-32.9300	-177.8900	35.3	6.2

2015.259	07:40:60	1.8500	126.3800	52.7	6.3
2015.260	04:10:31	-31.5400	-71.7100	30.1	6.8
2015.261	09:10:45	-32.4100	-72.2400	8.6	6.2
2015.262	05:06:47	-29.6600	-72.1200	10.0	6.0
2015.264	05:39:34	-31.5900	-71.7100	22.8	6.1
2015.265	07:12:60	-31.4800	-71.2000	54.3	6.1
2015.267	15:53:29	-0.6300	131.2600	24.1	6.6
2015.269	02:51:18	-30.8200	-71.3900	38.1	6.3
2015.284	00:58:28	-54.5800	-135.8100	10.0	6.1
2015.291	16:18:35	-16.2500	-173.1800	10.0	6.0
2015.293	21:52:02	-14.8400	167.3100	127.1	7.1
2015.299	09:09:33	36.4400	70.7200	212.5	7.5
2015.308	03:44:15	-8.3500	124.9000	14.3	6.5
2015.311	07:04:31	-29.4500	-72.2900	12.0	6.1
2015.312	16:47:02	6.8500	94.6600	10.0	6.6
2015.315	01:54:38	-29.4400	-72.1100	10.0	6.8
2015.321	07:10:09	38.7600	20.5500	11.1	6.5
2015.322	18:31:04	-8.9500	158.4200	10.8	6.8
2015.325	09:06:12	-7.2100	129.9300	67.3	6.1
2015.328	22:50:54	-10.0500	-71.0200	611.7	7.6
2015.330	05:45:18	-9.1900	-71.2900	599.3	6.7
2015.331	21:00:23	-24.8200	-70.6300	35.0	6.2
2015.338	22:24:56	-47.6400	85.0900	10.0	7.1
2015.341	07:50:07	38.2600	72.7700	26.0	7.2
2015.343	10:21:50	-4.1200	129.4800	33.9	6.8
2015.353	02:10:53	-18.4000	169.4000	10.0	6.0
2015.354	18:47:36	3.6300	117.6200	9.0	6.1
2015.358	19:44:03	-55.7800	-123.0900	12.1	6.2
2015.359	19:14:48	36.5000	71.1300	203.4	6.3
2016.001	02:00:40	-50.5800	139.4500	10.0	6.4
2016.003	23:05:22	24.8300	93.6600	55.0	6.7
2016.005	09:34:15	-54.3400	-136.1400	10.0	6.0
2016.011	16:38:07	3.8600	126.8700	20.8	6.5
2016.014	03:25:28	-19.8300	-63.2800	582.4	6.1
2016.025	04:22:03	35.7400	-3.6000	10.0	6.4
2016.026	03:10:24	-5.3300	153.1700	43.8	6.1
2016.031	17:39:00	-63.2900	169.1500	10.0	6.0
2016.032	19:00:45	-30.9200	179.9900	382.4	6.2
2016.038	02:03:35	-15.1800	-173.2600	10.0	6.0
2016.039	16:19:13	-6.6200	154.7100	31.6	6.4
2016.041	00:33:06	-30.6300	-71.6200	31.5	6.4
2016.043	10:02:25	-9.5900	119.4000	30.5	6.2
2016.046	15:02:33	-20.9800	-175.4800	10.0	6.0
2016.047	23:48:35	-55.8300	-125.1600	10.0	6.1
2016.048	17:26:02	0.8500	129.0700	10.0	6.1
2016.053	06:37:03	-30.4600	-72.0600	10.1	6.0

2016.058	21:29:43	-51.7800	139.5600	10.0	6.1
2016.062	12:49:48	-4.9100	94.2800	24.0	7.8
2016.068	05:36:28	-15.1400	-173.4100	29.8	6.0
2016.079	11:26:34	17.9900	-60.7000	32.0	6.1
2016.092	19:24:57	-3.4300	144.9500	14.8	6.2
2016.094	08:23:54	-14.3500	166.8200	35.0	6.8
2016.097	06:58:50	-14.1100	166.5700	33.7	6.7
2016.098	03:32:54	-13.9900	166.5700	26.8	6.6
2016.101	10:28:59	36.4900	71.1600	210.4	6.6
2016.104	13:55:18	23.1300	94.9000	134.8	6.9
2016.105	21:50:27	-14.5500	166.4100	10.0	6.3
2016.107	23:58:37	0.3700	-79.9400	19.2	7.8
2016.113	03:03:42	-0.3300	-80.5400	10.0	6.0
2016.119	19:33:24	-16.0700	167.3900	27.2	7.0
2016.139	07:57:05	0.4300	-79.7600	32.4	6.7
2016.141	18:14:05	-25.5300	129.8000	10.0	6.0
2016.148	04:08:44	-20.8300	-178.6700	572.1	6.5
2016.149	05:38:51	-22.0200	-178.1600	416.8	6.9
2016.153	22:56:01	-2.2100	100.5700	50.8	6.7
2016.157	16:25:34	-4.5800	125.6200	429.0	6.3
2016.158	02:35:23	-30.4000	-177.1800	10.0	6.0
2016.159	19:15:16	1.2900	126.3600	38.3	6.3
2016.161	04:13:08	-11.4700	116.2300	29.9	6.1
2016.162	04:17:45	-8.6900	160.5400	28.5	6.1
2016.166	13:49:23	-18.7700	168.8200	111.0	6.2
2016.171	09:47:23	-20.5600	169.3200	13.6	6.3
2016.173	17:12:08	-3.4600	151.8500	365.3	6.3
2016.193	02:01:10	0.5700	-79.6400	17.4	6.0
2016.195	11:56:59	-28.2200	-176.3200	17.2	6.0
2016.202	15:13:16	-18.9000	169.0300	164.1	6.1
2016.207	17:26:50	-26.1100	-70.6500	68.5	6.1
2016.217	14:15:12	-22.3300	-66.0000	254.0	6.2
2016.225	01:26:35	-22.5000	173.1100	9.9	7.2
2016.231	18:09:43	-55.9200	-123.2000	4.6	6.0
2016.236	19:39:44	-7.2800	122.4500	528.2	6.1
2016.237	10:34:55	20.9200	94.5800	84.1	6.8
2016.242	04:29:58	-0.0400	-17.8300	10.0	7.1
2016.245	16:37:58	-37.4000	179.0500	19.0	7.0
2016.252	21:46:20	-54.6400	158.6000	10.0	6.1
2016.254	10:08:20	-5.5800	-76.9600	114.4	6.1
2016.267	22:53:10	6.5800	126.4800	65.0	6.3
2016.268	21:07:14	-18.1300	-175.0400	183.4	6.4
2016.289	08:03:38	-4.2600	150.4100	446.6	6.3
2016.291	06:14:58	-6.0500	148.8600	35.0	6.7
2016.293	00:26:01	-4.9200	108.1600	614.0	6.6
2016.300	05:19:55	-15.6300	-174.9100	42.4	6.1

2016.309	16:20:44	-35.1000	-71.0000	90.8	6.3
2016.318	11:02:57	-42.7600	173.0800	23.0	7.8
2016.319	00:34:23	-42.5900	173.2800	10.0	6.4
2016.325	20:57:44	-31.6400	-68.7600	115.8	6.4
2016.336	22:40:26	-15.3200	-70.8200	10.0	6.2
2016.340	01:13:05	-7.3200	123.4000	526.0	6.3
2016.341	22:03:32	5.2800	96.1100	8.2	6.6
2016.343	17:38:47	-10.6600	161.3400	41.0	7.8
2016.344	19:10:07	-10.7300	161.1100	20.6	6.9
2016.345	16:24:37	-5.6600	154.4900	157.1	6.1
2016.352	10:51:13	-4.5100	153.4500	103.2	7.9
2016.353	13:30:11	-9.9700	-70.9600	619.4	6.4
2016.355	04:21:29	-10.2300	161.2200	11.3	6.4
2016.356	00:17:15	-7.5100	127.8700	151.5	6.7
2016.360	14:22:28	-43.4200	-73.8800	34.6	7.5
2016.364	22:30:18	-9.0700	118.6100	72.3	6.3
2017.002	13:14:03	-23.3200	179.2900	549.2	6.3
2017.003	21:52:31	-19.3300	176.0500	17.1	6.9
2017.010	06:13:47	4.4600	122.5700	612.7	7.3
2017.019	23:04:20	-10.3900	161.3100	29.9	6.5
2017.022	04:30:23	-6.2100	155.1200	136.0	7.9
2017.038	22:03:56	25.2200	63.2700	25.9	6.3
2017.049	12:10:15	-23.9200	-66.6900	200.6	6.4
2017.052	14:09:04	-19.2800	-63.9000	597.6	6.5
2017.055	17:28:45	-23.2500	-178.8400	414.8	6.9
2017.063	02:58:25	-7.3500	155.7100	53.7	6.0
2017.064	22:47:53	-6.0000	149.3500	31.1	6.3
2017.078	15:43:25	-8.1500	160.7400	4.2	6.0
2017.093	17:40:18	-22.6600	25.1500	29.0	6.5
2017.105	08:19:42	-23.2400	-67.6500	135.1	6.3
2017.108	17:11:47	-18.0500	-178.4000	626.1	6.1
2017.113	02:36:06	-33.0400	-72.0800	9.8	6.0
2017.114	21:38:26	-33.0700	-72.0500	25.0	6.8
2017.118	20:23:18	5.5200	125.0600	26.0	6.8
2017.129	13:52:11	-14.6000	167.3800	169.0	6.8
2017.135	13:22:39	-4.0200	152.4900	10.0	6.2
2017.149	14:35:21	-1.2800	120.4500	9.1	6.6
2017.168	22:26:03	-24.1000	179.5900	518.2	6.1
2017.176	17:42:30	-19.6700	-176.4600	38.3	6.1
2017.179	18:20:54	-30.3000	-177.6500	10.0	6.1
2017.180	07:03:11	-31.1000	179.9500	392.3	6.1
2017.181	22:29:45	-0.3300	-80.5000	10.0	6.1
2017.192	07:00:01	-49.5500	164.0300	10.0	6.6
2017.194	03:36:10	-4.7900	153.1600	47.0	6.4
2017.200	12:16:25	-17.4400	66.4000	10.0	6.1
2017.225	03:08:11	-3.7900	101.6000	35.9	6.5

2017.230	02:59:22	-1.0800	-13.6300	10.0	6.6
2017.231	02:00:52	-17.9700	-178.8500	538.6	6.5

Supplemental File C: Results from all stations.
This table shows the results from this study. The Julian date refers to the events listed in Supplemental File B. The lower and upper bound refers to the limits of the 95% confidence interval. A row of asterisks separates the results of this study from those of Perttu et al. (2014) and Christensen and Abers (2010). Their results use different event identifiers, which are shown in the 'Julian Date' column.

Station	Backazimuth (Deg)	Distance (Deg)	Fast Direction (Deg)	Lower Bound (Deg)	Upper Bound (Deg)	δt (Sec)	Lower Bound (Sec)	Upper Bound (Sec)	Julian Date	Origin Time
AK.ANM	192.1	86.1	-20	-46	-5	1.36	0.68	2.08	2015.028	02:43:20
AK.ANM	98.4	122.7	40	17	82	0.56	0.20	1.32	2015.033	10:49:49
AK.ANM	191.6	91.6	-28	-41	-21	0.44	0.36	0.52	2015.218	23:59:45
AK.ANM	192.4	86.0	-22	-43	-9	0.80	0.48	1.36	2016.148	04:08:44
AK.BAGL	211.1	99.8	75	66	84	0.56	0.48	0.68	2011.108	13:03:03
AK.BAGL	265.1	94.7	35	7	68	0.64	0.32	1.44	2012.345	16:53:09
AK.BAGL	211.9	96.2	72	54	90	0.60	0.36	0.88	2013.224	04:16:48
AK.BAGL	213.3	93.6	83	60	100	0.48	0.28	0.68	2013.240	02:54:42
AK.BAGL	266.0	96.3	34	15	58	1.16	0.60	1.84	2013.244	11:52:30
AK.BAGL	116.0	91.6	-14	-33	3	1.32	0.80	1.80	2010.143	22:46:52
AK.BAGL	271.2	87.2	49	31	68	0.72	0.52	0.92	2010.202	09:16:04
AK.BAGL	211.9	91.9	-82	-92	-78	0.64	0.48	0.84	2015.218	23:59:45
AK.BAGL	214.5	90.1	86	56	108	0.28	0.16	0.56	2017.168	22:26:03
AK.BAL	271.0	87.1	21	13	31	1.08	0.76	1.56	2010.202	09:16:04
AK.BAL	211.0	86.2	61	52	82	0.52	0.36	0.68	2011.043	17:57:57
AK.BAL	210.9	100.2	81	66	92	0.40	0.32	0.52	2011.108	13:03:03
AK.BAL	272.3	88.4	28	25	35	1.12	0.96	1.24	2011.164	14:31:23
AK.BAL	213.8	107.2	78	58	96	1.04	0.60	1.48	2012.185	10:36:16
AK.BAL	211.7	96.6	-80	-118	-72	0.44	0.20	0.88	2013.224	04:16:48
AK.BAL	213.1	94.0	-83	-124	-70	0.28	0.12	0.60	2013.240	02:54:42
AK.BAL	213.9	92.5	74	46	108	0.20	0.12	0.44	2014.085	03:29:37
AK.BAL	210.5	96.5	-80	-112	-68	0.76	0.24	1.48	2015.236	09:41:26
AK.BAL	271.8	89.5	24	15	31	0.92	0.68	1.20	2016.159	19:15:16
AK.BAL	271.8	89.5	22	15	31	0.96	0.68	1.24	2016.159	19:15:16
AK.BARK	114.4	97.1	-24	-41	-7	1.44	0.84	2.32	2010.126	02:42:48
AK.BARK	214.8	89.3	69	56	88	0.44	0.32	0.64	2010.181	04:31:02
AK.BARK	213.8	89.1	82	62	98	0.48	0.32	0.68	2010.362	08:34:18
AK.BARK	211.5	96.0	80	62	94	0.52	0.36	0.72	2013.224	04:16:48
AK.BARN	212.3	96.8	-88	-102	-80	1.04	0.68	1.52	2013.224	04:16:48
AK.BARN	213.7	94.2	86	72	94	0.60	0.44	0.80	2013.240	02:54:42
AK.BARN	214.5	92.7	87	68	102	0.60	0.36	0.96	2014.085	03:29:37
AK.BARN	215.1	91.4	-87	-114	-70	0.48	0.28	0.96	2014.124	09:15:53
AK.BARN	116.0	92.6	-12	-43	7	0.76	0.48	1.16	2014.236	23:21:46
AK.BARN	213.8	85.8	88	62	102	0.44	0.32	0.72	2014.305	18:57:22
AK.BARN	211.6	86.4	70	39	106	0.36	0.16	0.96	2011.043	17:57:57
AK.BARN	215.3	93.0	-83	-98	-74	0.68	0.40	1.00	2011.052	10:57:52
AK.BARN	276.9	101.6	59	31	82	0.56	0.32	1.04	2011.069	17:08:37
AK.BARN	211.5	100.4	77	70	88	0.80	0.64	0.96	2011.108	13:03:03
AK.BARN	114.8	101.3	-7	-46	11	0.84	0.40	1.60	2011.171	16:36:01
AK.BARN	212.3	92.4	82	62	100	0.60	0.36	0.92	2015.218	23:59:45
AK.BARN	273.1	102.7	39	29	50	1.88	1.44	2.32	2016.043	10:02:25
AK.BARN	113.2	102.8	-47	-60	-35	1.20	0.68	1.64	2016.217	14:15:12

AK.BCP	113.3	87.5	-11	-21	-5	1.56	1.24	1.92	2015.330	05:45:18
AK.BCP	111.8	99.8	-20	-29	-15	1.08	0.88	1.28	2017.052	14:09:04
AK.BERG	275.5	86.0	37	29	43	1.00	0.80	1.24	2010.205	05:35:01
AK.BERG	210.5	95.7	-87	-100	-78	0.44	0.32	0.64	2013.224	04:16:48
AK.BERG	211.7	107.8	76	64	88	0.72	0.56	0.88	2013.228	02:31:06
AK.BESE	120.0	105.2	-26	-35	-21	1.64	1.36	1.96	2011.245	13:47:10
AK.BESE	256.1	90.5	-66	-76	-60	0.80	0.68	0.92	2011.348	05:04:59
AK.BESE	257.5	89.7	-52	-82	-35	0.60	0.40	0.84	2012.081	22:15:06
AK.BESE	119.8	104.9	-38	-48	-37	2.12	1.80	2.48	2012.149	05:07:24
AK.BESE	278.2	92.4	-54	-60	-50	1.08	0.92	1.24	2012.239	15:05:37
AK.BESE	271.1	98.3	-61	-80	-31	0.84	0.44	1.64	2012.345	16:53:09
AK.BESE	232.9	86.0	-55	-62	-54	1.00	0.80	1.20	2014.064	09:56:59
AK.BESE	220.2	92.8	-12	-37	19	0.52	0.24	0.88	2014.085	03:29:37
AK.BESE	121.9	88.4	-20	-33	-11	1.72	1.32	2.12	2014.236	23:21:46
AK.BESE	270.8	97.7	-55	-68	-46	0.96	0.76	1.24	2014.340	22:05:11
AK.BESE	277.0	102.8	-55	-64	-52	1.16	1.00	1.36	2015.058	13:45:05
AK.BESE	278.2	93.5	-58	-70	-35	1.16	0.68	1.64	2016.159	19:15:16
AK.BESE	116.0	97.0	-40	-48	-39	1.76	1.52	2.04	2017.052	14:09:04
AK.BGLC	213.4	89.2	57	46	90	0.52	0.24	0.88	2011.210	07:42:23
AK.BGLC	212.9	85.9	69	56	88	0.40	0.24	0.52	2016.148	04:08:44
AK.BMR	112.0	105.2	-12	-21	-5	0.84	0.64	1.04	2014.267	11:16:12
AK.BMR	274.9	85.7	57	52	64	0.48	0.40	0.56	2014.336	05:11:32
AK.BMR	270.3	90.4	66	56	76	1.32	0.84	1.64	2010.095	10:05:46
AK.BMR	112.5	98.3	1	-7	9	1.04	0.72	1.40	2010.126	02:42:48
AK.BMR	113.8	92.9	-16	-27	-9	1.32	1.04	1.60	2010.143	22:46:52
AK.BMR	303.3	94.8	-15	-35	3	0.60	0.40	0.84	2010.151	19:51:56
AK.BMR	112.5	102.9	-15	-35	-3	0.60	0.40	0.84	2010.193	00:11:21
AK.BMR	274.0	87.6	54	50	62	0.40	0.36	0.44	2011.041	14:41:59
AK.BMR	295.8	100.3	-22	-43	-5	0.60	0.40	0.80	2011.248	17:55:11
AK.BMR	111.4	110.4	-33	-48	-21	0.44	0.32	0.60	2012.149	05:07:24
AK.BMR	295.8	100.2	-18	-56	13	0.28	0.12	0.60	2012.175	04:34:53
AK.BMR	263.0	93.6	11	5	17	0.64	0.48	0.80	2012.345	16:53:09
AK.BMR	268.9	97.8	51	25	74	0.28	0.20	0.48	2015.058	13:45:05
AK.BMR	111.5	99.2	-5	-21	1	0.68	0.48	0.96	2015.082	04:51:37
AK.BMR	269.8	88.4	40	21	62	0.44	0.28	0.60	2016.159	19:15:16
AK.BMR	223.2	88.1	3	-19	23	0.52	0.32	0.76	2016.202	15:13:16
AK.BMR	110.8	104.1	-13	-25	-9	0.60	0.48	0.72	2016.217	14:15:12
AK.BMR	269.0	97.8	-15	-25	-11	1.32	0.80	1.84	2016.236	19:39:44
AK.BMR	109.1	91.0	85	82	88	1.44	1.32	1.56	2016.353	13:30:11
AK.BPAW	108.0	96.8	46	37	58	1.12	0.84	1.48	2010.143	22:46:52
AK.BPAW	103.0	92.7	53	52	56	1.12	1.04	1.16	2010.144	16:18:29
AK.BPAW	207.2	90.5	77	64	88	0.64	0.48	0.80	2010.181	04:31:02
AK.BPAW	106.3	106.8	52	41	66	1.36	0.96	1.76	2010.193	00:11:21
AK.BPAW	206.2	90.4	66	43	92	0.52	0.28	0.92	2010.362	08:34:18
AK.BPAW	104.2	113.0	46	43	54	1.20	1.04	1.40	2011.001	09:56:58
AK.BPAW	207.3	93.4	69	62	78	0.84	0.68	1.00	2011.052	10:57:52
AK.BPAW	105.4	102.6	51	46	56	1.00	0.88	1.12	2011.065	12:31:60
AK.BPAW	269.0	97.2	59	43	70	1.00	0.68	1.32	2011.069	17:08:37
AK.BPAW	204.2	101.1	68	58	80	1.32	1.00	1.64	2011.108	13:03:03
AK.BPAW	106.1	106.3	42	39	48	1.20	1.04	1.36	2011.171	16:36:01

AK.BPAW	206.6	90.8	65	56	78	0.72	0.56	0.88	2011.210	07:42:23
AK.BPAW	269.9	100.3	62	29	76	0.80	0.44	1.28	2011.286	03:16:30
AK.BPAW	100.5	102.0	46	46	52	1.16	1.08	1.20	2011.326	18:48:16
AK.BPAW	109.2	96.5	51	46	58	0.92	0.76	1.08	2012.030	05:11:01
AK.BPAW	105.2	114.2	55	48	64	0.96	0.76	1.16	2012.065	07:46:10
AK.BPAW	116.2	116.7	58	52	70	1.04	0.80	1.32	2012.085	22:37:06
AK.BPAW	114.2	114.8	62	56	72	0.88	0.72	1.08	2012.108	03:50:16
AK.BPAW	105.4	102.2	49	46	54	1.08	1.00	1.20	2012.135	10:00:40
AK.BPAW	104.9	114.1	59	58	62	0.88	0.80	0.92	2012.149	05:07:24
AK.BPAW	107.1	99.4	49	46	54	1.12	1.04	1.28	2012.159	16:03:19
AK.BPAW	105.6	91.9	58	54	64	1.16	1.00	1.32	2012.215	09:38:31
AK.BPAW	106.5	91.9	48	43	54	1.12	1.00	1.28	2012.315	14:57:51
AK.BPAW	257.4	91.2	45	31	56	1.56	1.08	2.04	2012.345	16:53:09
AK.BPAW	265.4	88.5	43	35	54	2.24	1.80	2.68	2012.352	09:16:31
AK.BPAW	216.9	88.6	81	66	96	0.72	0.44	1.00	2013.103	22:49:51
AK.BPAW	204.4	95.3	56	50	64	0.96	0.76	1.16	2013.116	06:53:29
AK.BPAW	204.7	100.7	59	54	64	1.48	1.28	1.68	2013.166	11:20:36
AK.BPAW	257.2	91.8	43	29	56	1.64	1.16	2.12	2013.224	00:53:44
AK.BPAW	204.6	97.4	67	60	76	1.08	0.88	1.24	2013.224	04:16:48
AK.BPAW	205.8	94.7	70	60	80	0.92	0.72	1.12	2013.240	02:54:42
AK.BPAW	109.0	98.5	51	43	62	1.16	0.92	1.40	2013.268	16:42:44
AK.BPAW	113.1	112.6	51	41	66	0.80	0.52	1.08	2013.304	23:03:59
AK.BPAW	202.6	99.3	53	39	74	1.12	0.64	1.68	2014.033	09:26:37
AK.BPAW	107.2	104.4	45	41	52	1.08	0.92	1.24	2014.093	02:43:17
AK.BPAW	207.0	91.8	59	46	78	1.00	0.68	1.40	2014.124	09:15:53
AK.BPAW	207.5	93.1	75	64	88	0.88	0.64	1.12	2014.124	09:25:15
AK.BPAW	202.0	96.7	58	54	62	1.08	1.00	1.16	2014.184	19:50:05
AK.BPAW	205.8	86.5	66	58	78	0.60	0.48	0.72	2014.202	14:54:41
AK.BPAW	114.3	114.8	52	48	60	0.96	0.76	1.12	2014.235	22:32:24
AK.BPAW	107.6	97.7	42	35	48	1.00	0.80	1.24	2014.236	23:21:46
AK.BPAW	205.2	86.3	65	54	80	0.64	0.48	0.80	2014.305	18:57:22
AK.BPAW	110.7	116.6	53	50	60	1.08	0.92	1.24	2015.033	10:49:49
AK.BPAW	263.7	95.0	58	52	62	1.40	1.20	1.60	2015.058	13:45:05
AK.BPAW	105.4	103.0	49	46	52	1.08	0.96	1.16	2015.082	04:51:37
AK.BPAW	204.3	93.1	66	60	74	0.88	0.76	1.00	2015.218	23:59:45
AK.BPAW	203.4	97.4	55	50	66	1.20	0.92	1.44	2015.236	09:41:26
AK.BPAW	113.9	113.9	54	48	62	0.96	0.76	1.16	2015.264	17:40:01
AK.BPAW	103.2	93.8	49	48	52	1.12	1.08	1.16	2015.330	05:45:18
AK.BPAW	265.4	98.5	51	46	58	1.48	1.28	1.68	2016.043	10:02:25
AK.BPAW	202.3	94.3	60	52	72	1.16	0.88	1.44	2016.195	12:11:13
AK.BPAW	217.5	88.6	-81	-92	-76	0.88	0.68	1.12	2016.202	15:13:16
AK.BPAW	104.5	107.8	55	50	60	1.08	0.96	1.24	2016.217	14:15:12
AK.BPAW	263.7	95.0	66	58	72	1.40	1.08	1.68	2016.236	19:39:44
AK.BPAW	103.3	94.7	53	52	56	1.08	1.04	1.12	2016.353	13:30:11
AK.BPAW	105.9	109.0	50	39	60	1.16	0.84	1.68	2017.049	12:10:15
AK.BPAW	101.2	106.0	47	43	52	1.32	1.16	1.44	2017.052	14:09:04
AK.BPAW	115.0	114.9	55	50	64	0.76	0.64	0.92	2017.114	21:38:26
AK.BPAW	206.6	91.1	71	62	82	0.80	0.64	0.96	2017.168	22:26:03
AK.BRLK	259.1	88.8	17	5	37	0.64	0.40	0.96	2012.282	11:43:31
AK.BRLK	257.5	90.3	13	7	19	0.68	0.56	0.84	2012.345	16:53:09

AK.BRLK	290.3	99.2	-34	-50	-17	0.56	0.44	0.80	2014.186	09:39:30
AK.BRLK	264.8	87.2	21	13	29	1.04	0.80	1.28	2010.095	10:05:46
AK.BRLK	290.4	98.8	-40	-54	-21	0.64	0.44	0.92	2010.096	22:15:02
AK.BRLK	292.0	98.1	-26	-41	-19	0.52	0.44	0.64	2010.129	05:59:42
AK.BRLK	103.2	91.7	-29	-46	-19	0.52	0.40	0.64	2010.144	16:18:29
AK.BRLK	297.7	92.7	-18	-27	-15	0.60	0.56	0.68	2010.151	19:51:56
AK.BRLK	268.6	97.1	25	13	50	0.44	0.24	0.72	2011.069	17:08:37
AK.BRLK	204.0	97.1	-30	-56	-5	0.32	0.16	0.56	2011.108	13:03:03
AK.BRLK	105.6	89.8	-28	-41	-21	0.76	0.64	0.92	2011.236	17:46:12
AK.BRLK	290.0	97.9	-16	-39	-5	0.52	0.36	0.72	2011.248	17:55:11
AK.BRLK	290.0	97.8	-24	-37	-15	0.52	0.44	0.64	2012.175	04:34:53
AK.BRLK	263.4	94.6	17	11	23	0.76	0.64	1.00	2015.058	13:45:05
AK.BRLK	103.6	92.8	-12	-35	-3	0.52	0.32	0.84	2015.330	05:45:18
AK.BRLK	103.9	94.1	-24	-46	-13	0.44	0.32	0.56	2015.328	22:45:38
AK.BRLK	103.8	93.6	-32	-56	-15	0.40	0.32	0.52	2015.328	22:50:54
AK.BRLK	263.4	94.6	19	11	27	0.60	0.44	0.76	2016.236	19:39:44
AK.BRLK	262.6	94.2	35	21	50	0.56	0.40	0.72	2016.340	01:13:05
AK.BRLK	103.7	93.6	-18	-33	-11	0.72	0.52	0.96	2016.353	13:30:11
AK.BRSE	207.2	87.9	-27	-37	-21	0.60	0.48	0.76	2014.124	09:15:53
AK.BRSE	207.7	89.3	-16	-43	5	0.36	0.24	0.52	2014.124	09:25:15
AK.BRSE	290.4	99.2	-12	-46	5	0.60	0.36	1.12	2014.186	09:39:30
AK.BRSE	263.5	94.7	9	3	15	0.64	0.44	0.88	2015.058	13:45:05
AK.BRSE	204.5	89.2	-12	-25	-3	0.56	0.44	0.68	2015.218	23:59:45
AK.BRSE	103.7	92.7	-20	-46	-7	0.48	0.32	0.72	2015.330	05:45:18
AK.BRSE	259.1	88.4	-79	-86	-76	2.04	1.80	2.36	2015.343	10:21:50
AK.BRSE	285.2	101.2	-9	-23	-3	0.44	0.32	0.60	2016.153	22:56:01
AK.BRSE	285.2	101.2	-9	-25	-3	0.44	0.32	0.60	2016.153	22:56:01
AK.BRSE	258.8	92.2	25	11	46	0.68	0.48	0.88	2016.356	00:17:15
AK.BWN	107.6	105.7	86	78	88	1.12	0.84	1.36	2011.171	16:36:01
AK.BWN	208.1	91.2	84	54	102	0.44	0.24	0.80	2011.210	07:42:23
AK.BWN	106.3	113.4	76	70	86	1.32	1.08	1.56	2012.149	05:07:24
AK.BWN	108.6	98.7	89	82	92	1.04	0.76	1.32	2012.159	16:03:19
AK.BWN	292.0	97.0	44	35	52	1.04	0.76	1.36	2012.175	04:34:53
AK.BWN	205.8	95.7	74	52	90	0.56	0.36	0.76	2013.116	06:53:29
AK.BWN	207.3	95.1	63	54	78	0.60	0.44	0.76	2013.240	02:54:42
AK.BWN	276.8	102.2	43	37	52	1.24	1.00	1.48	2014.025	05:14:21
AK.BWN	204.0	99.7	74	62	84	0.84	0.64	1.00	2014.033	09:26:37
AK.BWN	108.6	103.7	83	80	88	1.16	1.04	1.32	2014.093	02:43:17
AK.BWN	265.2	95.8	41	33	48	1.44	1.20	1.68	2015.058	13:45:05
AK.BWN	204.8	97.8	77	68	88	0.88	0.64	1.12	2015.236	09:41:26
AK.BWN	221.8	85.7	70	54	104	0.36	0.16	0.64	2015.293	21:52:02
AK.BWN	260.3	89.9	42	39	48	1.68	1.48	1.84	2015.343	10:21:50
AK.BWN	267.0	99.2	39	33	43	1.36	1.20	1.52	2016.043	10:02:25
AK.BWN	265.5	86.4	41	37	48	1.80	1.60	2.04	2016.159	19:15:16
AK.BWN	269.0	102.3	49	46	54	1.56	1.40	1.76	2016.161	04:13:08
AK.BWN	107.3	108.3	77	68	88	1.28	0.92	1.64	2017.049	12:10:15
AK.BWN	221.8	85.4	-86	-106	-72	0.32	0.24	0.48	2017.129	13:52:11
AK.BWN	285.7	101.6	44	35	52	1.28	0.96	1.60	2017.225	03:08:11
AK.BWN	208.1	85.3	88	62	104	0.36	0.20	0.64	2017.231	02:00:52
AK.CAPN	206.8	88.8	-17	-39	-3	0.52	0.36	0.68	2014.124	09:15:53

AK.CAPN	205.7	84.6	-34	-46	-23	0.48	0.32	0.60	2016.148	04:08:44
AK.CAST	206.3	89.6	76	62	90	0.84	0.56	1.08	2010.181	04:31:02
AK.CAST	103.6	113.3	42	31	56	1.04	0.68	1.48	2011.001	09:56:58
AK.CAST	202.0	86.3	84	64	94	0.76	0.40	1.20	2011.043	17:57:57
AK.CAST	206.3	92.5	66	58	78	0.96	0.72	1.16	2011.052	10:57:52
AK.CAST	268.0	96.7	28	21	31	1.88	1.68	2.16	2011.069	17:08:37
AK.CAST	203.2	100.3	71	64	82	1.24	0.96	1.56	2011.108	13:03:03
AK.CAST	205.6	90.0	82	66	92	0.76	0.56	1.04	2011.210	07:42:23
AK.CAST	104.5	91.3	49	39	62	1.00	0.76	1.24	2011.236	17:46:12
AK.CAST	104.4	114.7	50	39	64	1.16	0.84	1.52	2011.245	13:47:10
AK.CAST	104.3	114.4	52	41	66	0.84	0.60	1.08	2012.149	05:07:24
AK.CAST	289.3	96.1	39	31	52	1.08	0.68	1.52	2012.175	04:34:53
AK.CAST	104.6	92.1	61	48	76	1.00	0.72	1.28	2012.215	09:38:31
AK.CAST	256.5	90.6	30	19	43	1.96	1.56	2.36	2012.345	16:53:09
AK.CAST	203.4	94.5	63	54	72	0.96	0.76	1.16	2013.116	06:53:29
AK.CAST	219.2	84.3	77	68	88	0.72	0.52	0.92	2015.293	21:52:02
AK.CAST	102.3	94.1	38	35	46	1.28	1.04	1.48	2015.330	05:45:18
AK.CAST	262.7	94.5	35	29	43	2.12	1.84	2.44	2016.236	19:39:44
AK.CAST	261.8	94.1	30	23	37	1.84	1.56	2.12	2016.340	01:13:05
AK.CAST	219.2	84.0	79	72	88	0.64	0.52	0.72	2017.129	13:52:11
AK.CAST	205.7	90.3	70	60	82	0.80	0.64	1.00	2017.168	22:26:03
AK.CAST	203.9	97.1	66	58	74	1.28	1.04	1.52	2017.180	07:03:11
AK.CAST	205.5	84.0	82	72	88	0.76	0.56	0.92	2017.231	02:00:52
AK.CCB	207.1	96.4	75	62	88	0.68	0.52	0.84	2013.116	06:53:29
AK.CCB	288.4	102.1	56	46	70	1.36	1.04	1.72	2013.187	05:05:07
AK.CCB	209.4	110.5	71	62	84	1.28	1.00	1.56	2013.228	02:31:06
AK.CCB	208.6	95.8	67	62	76	0.76	0.64	0.88	2013.240	02:54:42
AK.CCB	206.2	98.5	82	70	90	1.80	1.24	2.40	2013.273	05:55:56
AK.CCB	205.3	100.4	81	66	92	1.04	0.72	1.44	2014.033	09:26:37
AK.CCB	209.3	94.3	73	62	88	0.80	0.56	1.00	2014.085	03:29:37
AK.CCB	209.8	92.9	86	54	102	0.68	0.36	1.32	2014.124	09:15:53
AK.CCB	210.3	94.2	72	64	86	0.72	0.56	0.88	2014.124	09:25:15
AK.CCB	204.7	97.8	71	66	80	1.04	0.92	1.20	2014.184	19:50:05
AK.CCB	208.1	87.4	82	62	96	0.48	0.36	0.68	2014.305	18:57:22
AK.CCB	263.9	89.0	50	37	60	2.44	1.52	3.20	2010.073	00:57:45
AK.CCB	267.4	89.0	35	23	46	1.44	1.04	1.84	2010.095	10:05:46
AK.CCB	244.4	85.7	24	13	37	1.88	1.36	2.40	2010.107	23:15:22
AK.CCB	109.2	101.0	79	56	90	0.68	0.40	1.00	2010.126	02:42:48
AK.CCB	105.8	91.5	82	62	90	0.60	0.36	0.92	2010.144	16:18:29
AK.CCB	266.9	87.2	29	19	37	1.56	1.24	1.88	2010.215	12:08:26
AK.CCB	205.6	89.3	70	58	84	0.92	0.68	1.20	2011.031	06:03:27
AK.CCB	205.9	88.2	60	37	96	0.56	0.24	0.92	2011.043	17:57:57
AK.CCB	210.1	94.5	72	56	90	0.64	0.40	0.92	2011.052	10:57:52
AK.CCB	272.0	98.5	34	23	43	1.48	1.08	1.88	2011.069	17:08:37
AK.CCB	206.9	102.2	49	33	88	0.84	0.28	1.68	2011.108	13:03:03
AK.CCB	108.8	105.2	87	74	92	1.20	0.72	1.72	2011.171	16:36:01
AK.CCB	107.5	113.3	88	80	92	1.32	0.92	1.84	2011.245	13:47:10
AK.CCB	293.4	97.4	61	41	84	0.92	0.56	1.36	2011.248	17:55:11
AK.CCB	272.8	101.7	61	52	70	1.88	1.40	2.36	2011.286	03:16:30
AK.CCB	108.1	101.0	72	50	90	0.48	0.28	0.76	2012.135	10:00:40

AK.CCB	107.4	113.0	77	70	86	1.36	1.12	1.60	2012.149	05:07:24
AK.CCB	109.9	98.2	90	72	96	1.08	0.52	1.68	2012.159	16:03:19
AK.CCB	293.4	97.4	53	46	60	0.76	0.60	0.96	2012.175	04:34:53
AK.CCB	266.7	86.0	45	39	52	1.76	1.52	2.04	2012.239	15:05:37
AK.CCB	260.3	92.7	42	29	54	1.08	0.80	1.36	2012.345	16:53:09
AK.CCB	113.1	115.5	79	74	88	1.00	0.84	1.20	2015.033	10:49:49
AK.CCB	266.6	96.4	39	27	52	1.24	0.92	1.60	2015.058	13:45:05
AK.CCB	291.1	100.5	73	54	88	0.96	0.56	1.36	2015.062	10:37:31
AK.CCB	108.1	101.8	60	43	80	0.84	0.52	1.20	2015.082	04:51:37
AK.CCB	206.1	98.5	62	43	88	0.72	0.36	1.12	2015.236	09:41:26
AK.CCB	115.7	112.1	78	64	88	1.00	0.68	1.36	2015.269	02:51:18
AK.CCB	106.1	92.6	82	66	90	0.64	0.40	0.96	2015.330	05:45:18
AK.CCB	261.7	90.6	32	21	39	1.40	1.08	1.68	2015.343	10:21:50
AK.CCB	288.8	101.1	49	43	56	1.12	0.92	1.36	2016.153	22:56:01
AK.CCB	264.9	92.7	37	29	43	1.44	1.20	1.68	2016.157	16:25:34
AK.CCB	266.8	87.1	39	31	48	1.56	1.28	1.84	2016.159	19:15:16
AK.CCB	288.8	101.1	47	41	54	1.20	1.00	1.44	2016.153	22:56:01
AK.CCB	265.8	96.1	36	27	46	1.52	1.16	1.88	2016.340	01:13:05
AK.CCB	109.0	106.8	69	48	88	0.96	0.56	1.44	2017.105	08:19:42
AK.CCB	209.5	92.3	67	54	86	0.52	0.36	0.72	2017.168	22:26:03
AK.CCB	207.6	99.0	62	54	70	1.24	1.00	1.52	2017.180	07:03:11
AK.CCB	287.2	102.1	49	46	56	1.16	1.00	1.28	2017.225	03:08:11
AK.CHI	198.5	90.7	-34	-48	-23	2.00	1.60	2.40	2014.033	09:26:37
AK.CHN	276.2	98.3	74	68	82	1.24	0.92	1.52	2013.187	05:05:07
AK.CHUM	263.3	87.0	53	46	60	1.12	0.88	1.36	2010.095	10:05:46
AK.CHUM	105.4	102.6	53	43	66	1.20	0.88	1.48	2010.126	02:42:48
AK.CHUM	101.8	93.2	62	58	64	1.08	1.00	1.16	2010.144	16:18:29
AK.CHUM	201.8	86.7	58	52	64	1.32	1.12	1.56	2011.043	17:57:57
AK.CHUM	267.8	96.6	42	29	54	0.64	0.52	0.76	2011.069	17:08:37
AK.CHUM	203.1	100.7	55	48	64	1.32	1.08	1.52	2011.108	13:03:03
AK.CHUM	205.4	90.4	49	41	60	1.20	0.80	1.64	2011.210	07:42:23
AK.CHUM	104.3	91.6	54	52	62	1.16	1.04	1.28	2011.236	17:46:12
AK.CHUM	259.1	91.7	49	35	62	0.96	0.68	1.28	2011.242	06:57:42
AK.CHUM	215.1	89.6	77	58	102	0.44	0.24	0.64	2011.246	22:55:41
AK.CHUM	205.2	88.1	69	56	82	0.72	0.52	0.92	2011.258	19:31:04
AK.CHUM	268.6	99.7	39	25	58	0.56	0.44	0.68	2011.286	03:16:30
AK.CHUM	99.3	102.5	65	62	70	1.16	1.00	1.28	2011.326	18:48:16
AK.CHUM	104.3	102.7	58	54	68	1.04	0.84	1.24	2012.135	10:00:40
AK.CHUM	103.9	114.6	70	64	78	0.88	0.72	1.04	2012.149	05:07:24
AK.CHUM	104.4	92.4	64	58	72	1.08	0.88	1.28	2012.215	09:38:31
AK.CHUM	257.8	89.0	54	50	58	1.24	1.00	1.44	2012.282	11:43:31
AK.CHUM	105.3	92.4	63	52	76	0.88	0.64	1.08	2012.315	14:57:51
AK.CHUM	256.3	90.6	52	46	62	1.12	0.88	1.44	2012.345	16:53:09
AK.CHUM	264.2	87.9	52	48	62	1.12	0.88	1.36	2012.352	09:16:31
AK.CHUM	203.2	94.9	65	58	72	1.04	0.88	1.20	2013.116	06:53:29
AK.CHUM	203.5	97.0	63	56	72	1.12	0.92	1.36	2013.224	04:16:48
AK.CHUM	204.7	94.3	67	62	76	0.96	0.80	1.12	2013.240	02:54:42
AK.CHUM	264.8	95.5	29	17	48	0.88	0.60	1.20	2013.264	01:39:15
AK.CHUM	201.5	98.9	55	37	76	1.36	0.76	2.12	2014.033	09:26:37
AK.CHUM	206.3	92.6	60	52	76	0.84	0.60	1.08	2014.124	09:25:15

AK.CHUM	201.9	96.1	52	41	66	1.92	1.24	2.84	2014.174	19:19:17
AK.CHUM	200.8	96.3	59	50	70	1.16	0.88	1.48	2014.184	19:50:05
AK.CHUM	204.5	86.1	55	50	62	1.00	0.84	1.20	2014.202	14:54:41
AK.CHUM	106.5	98.2	40	37	48	2.24	1.80	2.68	2014.236	23:21:46
AK.CHUM	204.0	85.9	58	50	68	1.00	0.72	1.24	2014.305	18:57:22
AK.CHUM	262.4	94.4	42	35	52	0.92	0.76	1.08	2015.058	13:45:05
AK.CHUM	104.3	103.5	56	48	66	1.04	0.84	1.28	2015.082	04:51:37
AK.CHUM	203.1	92.6	59	43	78	0.72	0.48	1.04	2015.218	23:59:45
AK.CHUM	202.3	97.0	52	48	60	1.12	0.92	1.32	2015.236	09:41:26
AK.CHUM	102.1	94.3	54	52	58	1.04	0.96	1.08	2015.330	05:45:18
AK.CHUM	257.6	88.6	46	41	48	1.36	1.24	1.48	2015.343	10:21:50
AK.CHUM	260.9	90.6	41	31	50	1.04	0.80	1.28	2016.157	16:25:34
AK.CHUM	266.2	100.9	58	52	64	1.12	0.88	1.32	2016.161	04:13:08
AK.CHUM	260.9	90.6	41	33	50	1.08	0.92	1.28	2016.157	16:25:34
AK.CHUM	216.2	88.0	70	58	90	0.48	0.32	0.72	2016.202	15:13:16
AK.CHUM	262.5	94.4	45	39	52	0.88	0.76	1.04	2016.236	19:39:44
AK.CHUM	261.7	94.1	48	41	54	1.04	0.88	1.20	2016.340	01:13:05
AK.CHUM	102.1	95.2	54	50	62	0.96	0.80	1.12	2016.353	13:30:11
AK.CHUM	100.1	106.6	60	56	68	1.40	1.20	1.64	2017.052	14:09:04
AK.CHUM	205.5	90.7	71	62	84	0.56	0.48	0.68	2017.168	22:26:03
AK.CHUM	258.5	88.2	37	31	41	1.80	1.58	2.00	2015.343	10:21:50
AK.CNP	204.2	93.2	-36	-48	-25	0.76	0.52	1.00	2013.224	04:16:48
AK.CNP	205.5	90.5	-30	-39	-27	0.64	0.52	0.72	2013.240	02:54:42
AK.CNP	265.3	95.6	25	15	35	0.72	0.52	0.96	2013.264	01:39:15
AK.CNP	202.2	95.0	-40	-56	-21	0.84	0.52	1.36	2014.033	09:26:37
AK.CNP	206.2	89.0	-26	-35	-19	0.80	0.64	1.00	2014.085	03:29:37
AK.CNP	206.8	87.6	-33	-43	-27	0.92	0.76	1.12	2014.124	09:15:53
AK.CNP	207.2	89.0	-35	-43	-29	0.72	0.56	0.88	2014.124	09:25:15
AK.CNP	201.6	92.5	-28	-39	-23	0.76	0.64	0.88	2014.184	19:50:05
AK.CNP	289.9	99.1	-52	-62	-48	1.16	0.76	1.60	2014.186	09:39:30
AK.CNP	290.1	98.7	-46	-56	-35	0.96	0.68	1.28	2010.096	22:15:02
AK.CNP	206.4	86.7	-30	-39	-23	0.76	0.64	0.92	2011.210	07:42:23
AK.CNP	105.3	89.9	-35	-41	-31	0.84	0.76	0.92	2011.236	17:46:12
AK.CNP	259.9	91.5	24	15	33	1.04	0.76	1.28	2011.242	06:57:42
AK.CNP	106.8	113.3	-21	-46	-3	0.56	0.32	0.80	2011.245	13:47:10
AK.CNP	268.8	100.2	27	15	41	0.88	0.56	1.28	2011.286	03:16:30
AK.CNP	291.2	98.9	-49	-58	-39	1.16	0.76	1.48	2012.207	00:27:45
AK.CNP	263.1	94.4	13	5	25	0.84	0.52	1.24	2015.058	13:45:05
AK.CNP	103.3	92.9	-29	-39	-23	0.68	0.56	0.76	2015.330	05:45:18
AK.CNP	261.8	90.5	20	11	29	0.96	0.72	1.24	2016.157	16:25:34
AK.CNP	265.5	97.9	24	17	31	0.60	0.48	0.76	2016.364	22:30:18
AK.CNP	206.5	87.0	-32	-41	-25	0.92	0.72	1.16	2017.168	22:26:03
AK.COLD	205.2	98.3	57	52	62	1.32	1.16	1.44	2013.116	06:53:29
AK.COLD	203.8	89.8	62	58	68	1.08	0.92	1.20	2013.143	21:07:47
AK.COLD	205.5	100.4	61	48	78	1.20	0.84	1.56	2013.224	04:16:48
AK.COLD	206.7	97.7	61	56	66	1.16	1.08	1.28	2013.240	02:54:42
AK.COLD	204.5	100.2	56	48	70	0.96	0.72	1.24	2013.284	21:25:00
AK.COLD	203.5	102.3	61	37	90	1.04	0.56	1.84	2014.033	09:26:37
AK.COLD	220.7	87.9	-7	-31	15	0.92	0.56	1.40	2014.038	08:40:13
AK.COLD	207.3	96.1	71	64	78	1.20	1.04	1.36	2014.085	03:29:37

AK.COLD	202.8	89.8	69	62	78	1.48	1.16	1.76	2014.116	06:02:20
AK.COLD	207.8	94.7	70	62	78	1.00	0.84	1.16	2014.124	09:15:53
AK.COLD	208.3	96.0	72	64	84	1.24	1.00	1.52	2014.124	09:25:15
AK.COLD	202.8	99.8	51	43	62	1.12	0.84	1.52	2014.184	19:50:05
AK.COLD	206.4	89.5	50	46	58	0.72	0.60	0.92	2014.202	14:54:41
AK.COLD	107.9	98.4	52	33	80	0.72	0.44	1.20	2014.236	23:21:46
AK.COLD	201.4	90.3	-19	-27	-15	1.44	1.20	1.64	2014.247	05:33:46
AK.COLD	205.8	89.3	52	48	60	0.80	0.64	0.92	2014.305	18:57:22
AK.COLD	203.5	91.2	69	39	94	0.80	0.32	1.32	2011.031	06:03:27
AK.COLD	203.7	90.1	54	48	60	0.88	0.72	1.04	2011.043	17:57:57
AK.COLD	270.2	97.5	68	62	78	1.28	0.88	1.64	2011.069	17:08:37
AK.COLD	205.1	104.1	47	41	56	0.96	0.68	1.24	2011.108	13:03:03
AK.COLD	261.1	93.2	47	39	56	1.80	1.44	2.20	2011.242	06:57:42
AK.COLD	104.3	114.9	86	80	90	1.00	0.72	1.28	2011.245	13:47:10
AK.COLD	291.4	95.5	39	35	48	1.76	1.32	2.20	2011.248	17:55:11
AK.COLD	207.1	91.5	55	50	60	0.76	0.68	0.88	2011.258	19:31:04
AK.COLD	104.2	114.6	60	54	72	0.76	0.64	0.92	2012.149	05:07:24
AK.COLD	107.3	100.0	57	35	84	0.60	0.36	0.92	2012.159	16:03:19
AK.COLD	291.4	95.5	45	39	52	1.52	1.20	1.80	2012.175	04:34:53
AK.COLD	286.6	100.4	37	31	48	1.52	1.12	1.92	2012.258	04:51:47
AK.COLD	109.9	117.4	58	37	84	0.56	0.32	0.84	2015.033	10:49:49
AK.COLD	264.7	95.7	57	50	64	1.52	1.28	1.76	2015.058	13:45:05
AK.COLD	285.3	99.2	41	35	48	1.76	1.40	2.12	2015.135	20:26:56
AK.COLD	205.1	96.1	57	52	64	0.96	0.84	1.12	2015.218	23:59:45
AK.COLD	113.3	114.8	73	58	86	0.56	0.40	0.68	2015.264	17:40:01
AK.COLD	103.7	94.2	76	60	86	0.76	0.52	1.08	2015.330	05:45:18
AK.COLD	206.5	90.6	52	43	70	1.00	0.60	1.60	2016.148	04:08:44
AK.COLD	268.8	101.9	51	41	62	1.44	1.12	1.80	2016.161	04:13:08
AK.COLD	103.7	95.1	72	52	86	0.44	0.28	0.64	2016.353	13:30:11
AK.COLD	267.6	98.8	46	35	56	1.76	1.40	2.12	2016.364	22:30:18
AK.COLD	285.4	100.5	45	41	52	1.52	1.32	1.72	2017.225	03:08:11
AK.CRQ	271.1	88.1	57	46	68	0.60	0.48	0.76	2012.239	15:05:37
AK.CRQ	213.9	90.7	-84	-104	-74	0.36	0.20	0.56	2014.124	09:15:53
AK.CRQ	214.3	92.1	-74	-84	-68	0.52	0.36	0.76	2014.124	09:25:15
AK.CRQ	276.3	86.5	50	46	60	0.76	0.60	0.88	2014.336	05:11:32
AK.CTG	215.8	90.1	-80	-116	-66	0.48	0.20	0.96	2010.181	04:31:02
AK.CTG	211.7	100.4	84	74	88	0.96	0.76	1.16	2011.108	13:03:03
AK.CTG	215.1	90.4	-85	-100	-76	0.52	0.36	0.72	2011.210	07:42:23
AK.CTG	212.5	96.8	83	72	90	0.84	0.64	1.04	2013.224	04:16:48
AK.CTG	214.0	94.2	86	78	88	0.72	0.60	0.84	2013.240	02:54:42
AK.CTG	210.3	98.5	-86	-120	-70	0.92	0.36	1.76	2014.033	09:26:37
AK.CTG	214.8	92.7	-87	-100	-78	0.64	0.44	0.84	2014.085	03:29:37
AK.CTG	215.4	91.4	-81	-114	-68	0.48	0.20	0.92	2014.124	09:15:53
AK.CTG	214.7	86.1	69	58	88	0.36	0.28	0.48	2014.202	14:54:41
AK.CTG	214.1	85.8	64	60	76	0.60	0.48	0.72	2014.305	18:57:22
AK.CTG	272.7	89.0	33	25	43	0.60	0.48	0.72	2012.239	15:05:37
AK.CTG	212.5	94.7	-88	-108	-76	0.48	0.28	0.68	2013.116	06:53:29
AK.CTG	212.6	92.4	89	82	96	0.72	0.56	0.88	2015.218	23:59:45
AK.CTG	111.8	88.6	2	-7	9	1.48	1.08	1.84	2015.330	05:45:18
AK.CTG	215.6	84.5	86	74	90	0.36	0.28	0.40	2017.231	02:00:52

AK.CUT	257.7	90.5	40	29	50	0.72	0.56	0.88	2014.340	22:05:11
AK.CUT	264.1	95.2	56	37	70	0.52	0.32	0.80	2015.058	13:45:05
AK.CUT	259.5	89.2	45	39	50	1.20	1.04	1.36	2015.343	10:21:50
AK.CUT	206.5	86.2	-38	-43	-33	0.88	0.76	1.04	2016.148	04:08:44
AK.CUT	264.2	95.2	54	50	62	0.68	0.60	0.80	2016.236	19:39:44
AK.CUT	263.4	94.8	53	37	62	0.56	0.40	0.72	2016.340	01:13:05
AK.CUT	259.3	92.9	43	35	52	1.16	0.92	1.44	2016.356	00:17:15
AK.CUT	207.7	89.1	-30	-41	-25	1.24	0.96	1.52	2017.002	13:14:03
AK.CUT	207.3	83.5	-37	-46	-33	1.16	0.96	1.32	2017.231	02:00:52
AK.CYK	210.4	102.5	74	70	84	0.60	0.52	0.68	2016.245	16:37:58
AK.DDM	107.6	90.4	-38	-48	-33	0.68	0.56	0.76	2010.144	16:18:29
AK.DHY	207.6	97.2	58	39	88	0.48	0.24	0.84	2013.224	04:16:48
AK.DHY	210.6	93.0	55	41	90	0.36	0.16	0.64	2014.124	09:25:15
AK.DHY	209.1	86.4	51	39	84	0.36	0.16	0.72	2014.202	14:54:41
AK.DHY	206.0	88.0	78	62	90	1.12	0.72	1.56	2011.031	06:03:27
AK.DHY	293.6	98.2	0	-13	5	0.96	0.68	1.28	2011.248	17:55:11
AK.DHY	103.8	100.2	72	29	90	0.44	0.16	0.96	2011.326	18:48:16
AK.DHY	117.5	112.9	-28	-48	-13	1.60	0.96	2.28	2012.108	03:50:16
AK.DHY	293.6	98.2	-10	-19	-7	0.80	0.68	0.92	2012.175	04:34:53
AK.DHY	288.4	102.8	-10	-27	-1	0.76	0.48	1.04	2012.258	04:51:47
AK.DHY	288.9	101.8	-7	-13	-3	0.92	0.80	1.08	2016.153	22:56:01
AK.DHY	267.3	87.2	69	68	74	0.84	0.72	1.04	2016.159	19:15:16
AK.DIV	122.8	113.9	65	56	76	2.12	1.64	2.64	2012.023	16:04:53
AK.DIV	114.0	93.2	-10	-37	7	1.00	0.56	1.52	2012.030	05:11:01
AK.DIV	110.7	111.0	-17	-27	-13	2.40	2.04	2.76	2012.065	07:46:10
AK.DIV	112.0	96.1	-2	-41	13	0.60	0.28	1.20	2012.159	16:03:19
AK.DIV	269.2	89.8	45	29	64	1.16	0.76	1.56	2010.095	10:05:46
AK.DIV	107.7	89.6	2	-3	3	1.36	1.16	1.52	2010.144	16:18:29
AK.DOT	267.3	90.5	51	11	80	0.60	0.28	1.48	2010.073	00:57:45
AK.DOT	210.3	96.3	-82	-132	-66	0.76	0.16	2.16	2013.116	06:53:29
AK.DOT	211.8	95.8	82	70	90	0.60	0.44	0.76	2013.240	02:54:42
AK.DOT	209.4	98.2	87	46	108	0.60	0.24	1.48	2013.284	21:25:00
AK.DOT	213.5	94.2	76	54	96	0.56	0.28	0.80	2014.124	09:25:15
AK.DOT	212.1	87.6	66	46	98	0.24	0.16	0.52	2014.202	14:54:41
AK.DOT	120.0	111.9	86	54	106	0.44	0.20	0.80	2014.235	22:32:24
AK.DOT	211.5	87.4	62	41	98	0.28	0.16	0.64	2014.305	18:57:22
AK.DOT	263.2	93.5	19	1	60	0.52	0.24	1.08	2014.340	22:05:11
AK.DOT	212.4	91.5	86	60	104	0.60	0.32	1.00	2010.362	08:34:18
AK.DOT	274.5	87.5	41	27	56	0.88	0.60	1.16	2011.041	14:39:28
AK.DOT	209.8	102.1	82	52	100	0.68	0.36	1.04	2011.108	13:03:03
AK.DOT	270.6	87.5	51	37	66	0.76	0.52	1.00	2011.164	14:31:23
AK.DOT	212.7	91.9	89	66	104	0.32	0.24	0.52	2011.210	07:42:23
AK.DOT	109.4	90.8	-57	-66	-48	0.76	0.40	1.28	2015.330	05:45:18
AK.DOT	265.0	92.1	17	9	31	0.68	0.44	1.00	2015.343	10:21:50
AK.DOT	270.2	88.7	34	23	52	0.56	0.44	0.72	2016.159	19:15:16
AK.DOT	270.2	88.7	34	25	50	0.56	0.44	0.72	2016.159	19:15:16
AK.DOT	264.9	95.9	33	7	68	0.44	0.28	0.96	2016.356	00:17:15
AK.DOT	212.8	92.3	69	52	92	0.44	0.28	0.68	2017.168	22:26:03
AK.EYAK	211.0	91.2	81	68	94	2.24	1.84	2.52	2014.085	03:29:37
AK.EYAK	112.5	94.2	-47	-60	-25	0.92	0.44	1.36	2014.236	23:21:46

AK.EYAK	108.3	91.9	-36	-62	-5	0.80	0.44	1.64	2015.328	22:45:38
AK.EYAK	108.2	91.4	-6	-19	3	0.68	0.44	0.96	2015.328	22:50:54
AK.FIB	292.8	97.9	-37	-50	-27	1.12	0.80	1.48	2010.129	05:59:42
AK.FIB	103.8	91.7	-52	-60	-52	1.16	1.00	1.32	2010.144	16:18:29
AK.FIB	298.4	92.4	-16	-29	-7	1.08	0.80	1.36	2010.151	19:51:56
AK.FIB	290.8	97.7	-19	-33	-11	0.92	0.68	1.16	2011.248	17:55:11
AK.FIB	290.8	97.7	-27	-35	-23	1.00	0.84	1.12	2012.175	04:34:53
AK.FIB	258.1	90.9	18	7	33	0.72	0.44	1.08	2012.345	16:53:09
AK.FID	111.8	94.7	-8	-31	3	0.60	0.40	0.92	2014.236	23:21:46
AK.FID	268.2	87.5	62	62	68	1.32	1.16	1.48	2010.215	12:08:26
AK.FID	109.4	88.1	-21	-43	-5	0.68	0.48	0.92	2011.236	17:46:12
AK.FID	113.3	93.4	-21	-48	-1	0.92	0.56	1.36	2012.030	05:11:01
AK.FID	268.1	87.0	48	37	62	1.20	0.88	1.52	2015.076	22:12:29
AK.FID	107.2	91.0	-11	-48	1	0.76	0.40	1.16	2015.330	05:45:18
AK.FIRE	207.1	90.7	77	66	88	0.60	0.44	0.76	2014.085	03:29:37
AK.FIRE	216.2	88.5	-16	-48	19	1.00	0.60	1.68	2014.121	06:36:35
AK.FIRE	208.1	90.6	70	64	82	0.68	0.52	0.84	2014.124	09:25:15
AK.FIRE	204.9	90.5	79	68	90	0.44	0.32	0.60	2015.218	23:59:45
AK.FIRE	285.9	101.1	-22	-33	-15	0.68	0.56	0.80	2016.153	22:56:01
AK.FIRE	285.9	101.1	-28	-39	-21	0.68	0.56	0.80	2016.153	22:56:01
AK.FIRE	284.3	102.0	-22	-33	-13	0.68	0.52	0.88	2017.225	03:08:11
AK.FYU	296.6	98.4	53	37	88	0.72	0.36	1.36	2010.096	22:15:02
AK.FYU	298.1	97.5	62	58	74	0.80	0.68	0.92	2010.129	05:59:42
AK.FYU	212.4	93.8	78	70	88	1.12	0.92	1.36	2010.181	04:31:02
AK.FYU	208.2	90.4	-88	-94	-82	1.20	0.88	1.52	2011.043	17:57:57
AK.FYU	212.4	96.7	-86	-92	-82	1.36	1.08	1.64	2011.052	10:57:52
AK.FYU	209.2	104.4	81	70	90	0.96	0.72	1.20	2011.108	13:03:03
AK.FYU	211.8	94.1	84	76	88	0.88	0.76	1.00	2011.210	07:42:23
AK.FYU	221.6	93.5	-82	-98	-74	0.84	0.64	1.12	2011.246	22:55:41
AK.FYU	296.0	97.6	52	37	86	0.80	0.36	1.44	2011.248	17:55:11
AK.FYU	211.6	91.9	90	82	94	1.08	0.84	1.32	2011.258	19:31:04
AK.FYU	224.7	91.5	-81	-104	-68	0.60	0.44	0.84	2012.033	13:34:41
AK.FYU	207.8	88.0	84	70	92	0.88	0.68	1.16	2012.119	10:08:08
AK.FYU	212.6	111.1	73	60	88	1.00	0.72	1.32	2012.185	10:36:16
AK.FYU	225.5	88.4	67	62	76	1.16	0.88	1.48	2012.188	02:28:22
AK.FYU	225.6	88.1	80	68	92	1.16	0.80	1.56	2012.356	22:28:09
AK.FYU	209.5	98.6	-87	-96	-82	1.12	0.84	1.36	2013.116	06:53:29
AK.FYU	209.2	92.8	-87	-92	-86	1.16	0.96	1.32	2013.143	17:19:05
AK.FYU	211.0	98.0	89	86	90	1.08	1.00	1.16	2013.240	02:54:42
AK.FYU	207.6	102.5	88	80	92	1.24	0.96	1.48	2014.033	09:26:37
AK.FYU	212.2	95.1	84	68	98	0.80	0.56	1.12	2014.124	09:15:53
AK.FYU	212.7	96.4	79	66	92	0.76	0.56	0.96	2014.124	09:25:15
AK.FYU	208.1	99.8	76	66	88	0.92	0.76	1.12	2014.174	19:19:17
AK.FYU	207.0	100.0	83	72	90	1.12	0.84	1.44	2014.184	19:50:05
AK.FYU	210.4	89.6	-84	-90	-84	1.04	0.92	1.16	2014.305	18:57:22
AK.FYU	269.1	97.6	69	39	82	0.84	0.32	1.52	2015.058	13:45:05
AK.FYU	209.4	96.4	-81	-92	-78	1.40	0.96	1.84	2015.218	23:59:45
AK.FYU	208.5	100.7	-88	-100	-78	1.20	0.72	1.68	2015.236	09:41:26
AK.FYU	207.4	97.5	-85	-92	-84	1.36	1.12	1.60	2016.195	12:11:13
AK.FYU	211.8	88.2	-86	-96	-84	0.72	0.56	0.88	2017.231	02:00:52

AK.FYU	210.8	89.9	-87	-94	-86	1.00	0.80	1.12	2016.268	21:28:42
AK.GAMB	265.3	90.7	49	29	66	0.80	0.52	1.12	2015.135	20:26:56
AK.GAMB	267.0	91.0	57	50	66	0.84	0.68	1.04	2016.153	22:56:01
AK.GAMB	267.0	91.0	57	48	64	0.84	0.68	1.04	2016.153	22:56:01
AK.GAMB	245.1	86.2	45	33	54	0.48	0.32	0.68	2016.236	19:39:44
AK.GCSA	97.9	96.4	24	17	33	0.92	0.56	1.36	2015.330	05:45:18
AK.GCSA	260.2	96.0	34	29	39	1.28	1.12	1.44	2016.043	10:02:25
AK.GCSA	280.5	97.3	32	29	39	0.76	0.64	0.96	2016.153	22:56:01
AK.GCSA	262.3	99.0	28	23	33	1.12	1.00	1.28	2016.161	04:13:08
AK.GCSA	280.5	97.3	32	29	39	0.80	0.68	0.96	2016.153	22:56:01
AK.GCSA	262.3	99.0	28	23	33	1.12	1.00	1.28	2016.161	04:13:08
AK.GCSA	258.5	92.6	34	31	37	1.32	1.20	1.40	2016.236	19:39:44
AK.GCSA	272.4	96.6	38	25	56	0.96	0.68	1.32	2016.293	00:26:01
AK.GCSA	257.6	92.3	34	27	37	1.32	1.16	1.48	2016.340	01:13:05
AK.GCSA	278.8	98.3	33	27	41	0.76	0.60	0.96	2017.225	03:08:11
AK.GHO	208.4	89.2	52	43	72	0.56	0.36	0.84	2011.210	07:42:23
AK.GHO	282.2	103.5	-24	-43	-11	0.80	0.60	1.08	2011.234	20:12:21
AK.GHO	286.7	102.5	-51	-60	-43	1.48	1.12	1.84	2012.258	04:51:47
AK.GHO	218.8	87.4	67	58	80	0.88	0.60	1.20	2013.103	22:49:51
AK.GHO	206.2	95.7	42	35	56	0.60	0.32	0.92	2013.224	04:16:48
AK.GHO	208.3	91.5	44	37	58	0.64	0.36	0.92	2014.085	03:29:37
AK.GHO	208.8	90.2	69	52	88	0.36	0.24	0.52	2014.124	09:15:53
AK.GHO	105.2	92.3	-1	-17	5	0.44	0.24	0.80	2015.330	05:45:18
AK.GLB	209.3	96.5	63	37	104	0.64	0.24	1.48	2013.273	05:55:56
AK.GLB	209.5	96.3	83	50	102	0.56	0.28	0.92	2013.284	21:25:00
AK.GLB	211.9	85.6	76	52	96	0.40	0.28	0.60	2014.305	18:57:22
AK.GLI	208.9	103.8	69	62	80	1.60	1.36	1.88	2012.342	18:19:06
AK.GLI	207.7	95.3	-82	-130	-70	0.64	0.16	1.16	2013.224	04:16:48
AK.GLI	210.4	89.8	84	70	98	0.44	0.36	0.60	2014.124	09:15:53
AK.GLI	210.8	91.1	81	52	100	0.28	0.20	0.44	2014.124	09:25:15
AK.GLI	207.6	91.0	-82	-92	-78	0.56	0.36	0.76	2015.218	23:59:45
AK.GLI	267.6	87.2	64	54	72	0.84	0.64	1.12	2016.159	19:15:16
AK.GLI	221.0	87.2	81	68	94	0.40	0.28	0.52	2016.202	15:13:16
AK.GLI	210.1	89.2	82	68	96	0.40	0.32	0.56	2017.168	22:26:03
AK.GLM	244.9	87.0	25	9	39	1.00	0.68	1.36	2011.348	05:04:59
AK.GLM	293.8	97.4	64	54	74	0.96	0.72	1.20	2012.175	04:34:53
AK.GLM	267.1	86.2	47	35	60	1.52	1.16	1.92	2012.239	15:05:37
AK.GLM	257.3	87.6	47	37	56	1.52	1.20	1.80	2012.252	10:51:44
AK.GLM	260.7	92.9	47	33	60	1.44	0.92	1.92	2012.345	16:53:09
AK.GOAT	108.6	88.9	-27	-48	-9	0.36	0.24	0.48	2010.144	16:18:29
AK.GOAT	109.0	90.9	-11	-39	1	0.52	0.32	0.84	2015.328	22:50:54
AK.GRIN	275.8	86.2	40	17	74	0.64	0.24	1.08	2010.205	05:35:01
AK.GRNC	209.6	95.6	84	50	104	0.64	0.32	1.20	2014.184	19:50:05
AK.GRNC	214.3	85.8	72	62	86	0.40	0.32	0.52	2014.202	14:54:41
AK.GRNC	213.7	85.5	56	52	64	0.64	0.48	0.80	2014.305	18:57:22
AK.GRNC	277.4	87.1	49	43	58	0.84	0.68	1.00	2014.336	05:11:32
AK.GRNC	214.4	86.9	58	48	88	0.72	0.36	1.20	2010.228	19:35:49
AK.GRNC	213.6	93.9	90	86	90	0.64	0.60	0.72	2013.240	02:54:42
AK.GRNC	211.0	96.4	-85	-110	-72	1.08	0.44	1.84	2013.273	05:55:56
AK.GRNC	214.4	92.4	-84	-108	-66	0.64	0.24	1.08	2014.085	03:29:37

AK.GRNC	215.0	91.1	-87	-96	-80	0.64	0.52	0.76	2014.124	09:15:53
AK.GRNC	215.4	92.4	-79	-92	-74	0.56	0.36	0.72	2014.124	09:25:15
AK.GRNC	271.4	99.1	41	21	66	0.40	0.24	0.60	2015.058	13:45:05
AK.GRNC	272.3	89.8	34	21	54	0.60	0.40	0.88	2016.159	19:15:16
AK.GRNC	215.2	84.2	67	60	78	0.52	0.40	0.60	2017.231	02:00:52
AK.HDA	264.7	89.3	39	31	48	2.36	2.00	2.76	2010.073	00:57:45
AK.HDA	302.9	89.9	63	56	76	1.20	0.88	1.52	2010.089	16:54:47
AK.HDA	106.6	91.1	-17	-23	-15	0.76	0.68	0.84	2010.144	16:18:29
AK.HDA	301.4	92.0	61	52	74	1.00	0.72	1.24	2010.151	19:51:56
AK.HDA	267.7	87.5	48	41	54	1.64	1.40	1.84	2010.215	12:08:26
AK.HDA	271.8	86.3	42	31	54	1.40	1.04	1.72	2011.041	14:41:59
AK.HDA	109.1	89.5	-3	-13	1	1.00	0.72	1.32	2011.236	17:46:12
AK.HDA	104.0	100.4	-20	-35	-13	0.48	0.36	0.60	2011.326	18:48:16
AK.HDA	245.3	86.9	35	23	46	1.20	0.88	1.56	2011.348	05:04:59
AK.HDA	108.9	100.6	-11	-29	1	0.80	0.48	1.16	2012.135	10:00:40
AK.HDA	257.7	87.7	48	39	56	1.56	1.28	1.88	2012.252	10:51:44
AK.HDA	209.3	95.8	-83	-96	-76	0.52	0.32	0.72	2013.240	02:54:42
AK.HDA	262.1	94.5	38	25	52	1.48	1.04	1.88	2013.244	11:52:30
AK.HDA	267.4	86.2	39	25	56	1.20	0.76	1.60	2014.325	10:10:20
AK.HDA	267.3	96.8	51	43	56	1.52	1.28	1.76	2015.058	13:45:05
AK.HDA	267.6	87.0	30	23	37	1.56	1.20	1.88	2015.076	22:12:29
AK.HDA	108.9	101.4	-9	-23	-1	0.76	0.52	1.00	2015.082	04:51:37
AK.HDA	206.9	98.4	-79	-98	-74	1.04	0.44	1.68	2015.236	09:41:26
AK.HDA	267.8	86.9	44	39	48	1.64	1.44	1.80	2015.259	07:40:60
AK.HDA	106.8	92.2	-11	-19	-7	0.76	0.64	0.92	2015.330	05:45:18
AK.HDA	289.6	101.5	72	64	78	1.04	0.88	1.20	2016.153	22:56:01
AK.HDA	267.6	87.4	48	41	52	1.76	1.56	1.96	2016.159	19:15:16
AK.HDA	289.6	101.5	72	64	78	1.04	0.88	1.20	2016.153	22:56:01
AK.HDA	267.6	87.4	46	41	52	1.72	1.56	1.92	2016.159	19:15:16
AK.HDA	267.4	96.8	47	41	52	1.04	0.92	1.20	2016.236	19:39:44
AK.HDA	106.9	93.0	-23	-33	-15	0.68	0.52	0.84	2016.353	13:30:11
AK.HDA	262.4	94.7	42	35	52	1.80	1.40	2.20	2016.356	00:17:15
AK.HDA	287.9	102.5	72	66	76	1.20	1.04	1.36	2017.225	03:08:11
AK.HIN	109.4	87.9	-19	-27	-15	0.68	0.56	0.76	2011.236	17:46:12
AK.HIN	210.5	86.3	-15	-41	5	0.40	0.20	0.60	2011.258	19:31:04
AK.HIN	6.9	85.0	57	35	78	0.56	0.40	0.88	2013.167	21:39:06
AK.HIN	110.0	99.9	-10	-31	-1	0.40	0.24	0.56	2015.082	04:51:37
AK.HIN	107.3	90.8	-5	-15	-1	0.80	0.60	1.00	2015.330	05:45:18
AK.HMT	263.2	93.7	3	-1	11	0.84	0.48	1.16	2012.345	16:53:09
AK.HMT	210.1	95.5	56	41	94	0.68	0.24	1.16	2013.224	04:16:48
AK.HOM	289.7	98.5	-26	-52	-5	0.56	0.36	0.80	2010.096	22:15:02
AK.HOM	283.0	102.1	-49	-58	-46	0.84	0.72	0.96	2010.125	16:29:03
AK.HOM	291.3	97.8	-23	-31	-19	0.76	0.68	0.84	2010.129	05:59:42
AK.HOM	297.0	92.4	-17	-27	-11	0.84	0.68	1.00	2010.151	19:51:56
AK.HOM	206.6	89.3	-17	-29	-9	0.56	0.44	0.68	2011.052	10:57:52
AK.HOM	267.9	96.7	36	27	43	0.72	0.60	0.88	2011.069	17:08:37
AK.HOM	203.4	96.9	-37	-48	-31	0.48	0.36	0.60	2011.108	13:03:03
AK.HOM	206.0	86.7	-28	-39	-19	0.64	0.52	0.80	2011.210	07:42:23
AK.HOM	104.9	90.2	-49	-58	-46	1.16	0.96	1.40	2011.236	17:46:12
AK.HOM	289.3	97.6	-29	-39	-21	0.84	0.68	1.00	2011.248	17:55:11

AK.HOM	289.3	97.5	-33	-39	-33	0.88	0.84	0.96	2012.175	04:34:53
AK.HOM	290.8	98.7	-27	-37	-21	0.76	0.64	0.88	2012.207	00:27:45
AK.HOM	283.8	101.8	-40	-54	-31	0.84	0.60	1.04	2012.258	04:51:47
AK.HOM	256.8	89.9	29	21	35	0.88	0.72	1.04	2012.345	16:53:09
AK.HOM	205.2	90.6	-33	-41	-29	0.56	0.44	0.64	2013.240	02:54:42
AK.HOM	262.7	94.2	27	17	37	0.88	0.68	1.16	2015.058	13:45:05
AK.HOM	105.8	102.1	-28	-43	-17	0.60	0.44	0.76	2015.082	04:51:37
AK.HOM	203.7	88.9	-20	-33	-13	0.56	0.44	0.68	2015.218	23:59:45
AK.HOM	102.9	93.1	-33	-41	-29	0.80	0.68	0.92	2015.330	05:45:18
AK.HOM	284.4	100.8	-46	-54	-43	0.80	0.72	0.92	2016.153	22:56:01
AK.HOM	284.4	100.8	-46	-54	-43	0.80	0.68	0.88	2016.153	22:56:01
AK.HOM	206.1	87.0	-22	-31	-15	0.64	0.52	0.72	2017.168	22:26:03
AK.HOM	282.7	101.7	-49	-58	-43	0.92	0.76	1.08	2017.225	03:08:11
AK.ISLE	214.9	89.5	-83	-94	-76	0.40	0.28	0.56	2010.181	04:31:02
AK.ISLE	271.0	87.1	51	33	68	0.80	0.52	1.08	2010.202	09:16:04
AK.ISLE	277.2	86.2	67	39	84	0.56	0.36	0.88	2010.204	23:15:10
AK.ISLE	213.8	86.6	90	58	106	0.56	0.28	0.96	2010.228	19:35:49
AK.ISLE	213.9	89.3	88	50	108	0.36	0.16	0.72	2010.362	08:34:18
AK.ISLE	214.7	92.4	-85	-96	-76	0.56	0.40	0.80	2011.052	10:57:52
AK.ISLE	210.9	99.9	79	68	88	0.72	0.52	0.88	2011.108	13:03:03
AK.ISLE	214.2	89.8	88	60	108	0.44	0.24	0.76	2011.210	07:42:23
AK.ISLE	117.0	91.4	-25	-41	-9	1.08	0.72	1.44	2012.030	05:11:01
AK.ISLE	271.8	88.5	64	48	72	0.44	0.32	0.56	2012.239	15:05:37
AK.ISLE	211.7	96.2	-82	-94	-78	0.68	0.48	0.92	2013.224	04:16:48
AK.ISLE	213.1	93.6	-87	-94	-82	0.60	0.48	0.76	2013.240	02:54:42
AK.ISLE	213.8	85.5	78	70	86	0.40	0.32	0.44	2014.202	14:54:41
AK.ISLE	213.2	85.3	65	54	82	0.40	0.32	0.52	2014.305	18:57:22
AK.ISLE	211.7	91.9	-84	-106	-74	0.64	0.36	1.00	2015.218	23:59:45
AK.ISLE	213.7	86.6	82	68	92	0.32	0.28	0.40	2016.148	04:08:44
AK.ISLE	271.8	89.5	54	37	66	0.60	0.40	0.76	2016.159	19:15:16
AK.ISLE	214.3	90.2	-88	-96	-82	0.48	0.40	0.60	2017.168	22:26:03
AK.ISLE	213.6	85.5	72	62	86	0.32	0.28	0.40	2016.268	21:28:42
AK.JIS	277.3	103.1	-63	-72	-58	1.40	1.08	1.76	2015.058	13:45:05
AK.JIS	116.4	96.6	-36	-46	-27	1.32	1.00	1.64	2017.052	14:09:04
AK.KHIT	113.7	97.5	-24	-37	-17	1.00	0.76	1.20	2010.126	02:42:48
AK.KHIT	112.3	86.5	-8	-21	-1	0.92	0.68	1.20	2011.236	17:46:12
AK.KHIT	210.7	99.1	87	60	100	0.76	0.48	1.08	2013.166	11:20:36
AK.KHIT	122.2	109.3	70	66	78	1.40	1.20	1.60	2015.261	09:10:45
AK.KHIT	110.2	89.3	-20	-33	-9	1.72	1.32	2.12	2015.330	05:45:18
AK.KHIT	283.9	103.4	-22	-43	-11	0.80	0.52	1.12	2016.293	00:26:01
AK.KIAG	276.4	86.4	30	23	41	0.68	0.52	0.88	2010.205	05:35:01
AK.KIAG	214.4	92.6	50	43	84	0.44	0.16	0.72	2011.052	10:57:52
AK.KIAG	210.7	100.1	65	52	84	0.40	0.28	0.56	2011.108	13:03:03
AK.KIAG	213.5	107.0	78	66	88	0.76	0.56	0.96	2012.185	10:36:16
AK.KIAG	261.7	89.0	22	13	31	0.72	0.56	0.88	2012.252	10:51:44
AK.KIAG	211.2	99.7	49	39	76	0.80	0.36	1.32	2013.166	11:20:36
AK.KIAG	211.4	96.4	81	56	100	0.36	0.20	0.56	2013.224	04:16:48
AK.KIAG	212.9	93.8	65	39	108	0.28	0.12	0.76	2013.240	02:54:42
AK.KIAG	210.4	96.1	82	56	102	0.48	0.28	0.76	2013.284	21:25:00
AK.KIAG	276.7	86.7	31	25	35	0.96	0.76	1.16	2014.336	05:11:32

AK.KIAG	270.9	98.8	23	17	33	0.56	0.40	0.76	2015.058	13:45:05
AK.KLU	111.3	99.1	5	-9	13	0.72	0.36	1.16	2010.126	02:42:48
AK.KNK	277.0	102.9	-55	-66	-52	1.28	0.96	1.60	2014.025	05:14:21
AK.KNK	267.2	99.4	-69	-78	-64	1.12	0.80	1.44	2016.043	10:02:25
AK.KTH	106.7	101.9	55	48	64	1.00	0.84	1.20	2010.126	02:42:48
AK.KTH	108.1	96.6	56	43	70	1.48	1.00	2.28	2010.143	22:46:52
AK.KTH	103.1	92.5	77	72	82	0.80	0.68	0.88	2010.144	16:18:29
AK.KTH	104.5	112.9	55	52	60	1.16	1.04	1.32	2011.001	09:56:58
AK.KTH	269.0	97.2	33	29	39	1.76	1.60	1.92	2011.069	17:08:37
AK.KTH	204.2	100.6	62	54	74	0.80	0.64	0.92	2011.108	13:03:03
AK.KTH	106.4	106.2	46	43	56	1.56	1.28	1.80	2011.171	16:36:01
AK.KTH	105.5	90.9	68	48	84	0.72	0.52	1.00	2011.236	17:46:12
AK.KTH	105.4	114.3	63	56	72	1.24	1.04	1.40	2011.245	13:47:10
AK.KTH	216.4	89.6	56	52	68	0.56	0.40	0.72	2011.246	22:55:41
AK.KTH	269.8	100.4	42	33	48	2.12	1.76	2.48	2011.286	03:16:30
AK.KTH	100.6	101.9	69	62	76	1.16	1.00	1.36	2011.326	18:48:16
AK.KTH	109.4	96.3	55	46	66	0.92	0.72	1.20	2012.030	05:11:01
AK.KTH	116.5	116.4	69	60	82	0.96	0.76	1.20	2012.085	22:37:06
AK.KTH	105.6	102.0	60	54	66	1.08	0.96	1.24	2012.135	10:00:40
AK.KTH	107.3	99.2	51	46	60	1.20	1.00	1.40	2012.159	16:03:19
AK.KTH	204.7	100.2	55	37	88	0.68	0.36	1.04	2013.166	11:20:36
AK.KTH	205.9	94.2	60	50	74	0.52	0.36	0.68	2013.240	02:54:42
AK.KTH	275.2	101.5	-57	-66	-54	0.96	0.80	1.16	2014.025	05:14:21
AK.KTH	202.6	98.8	47	37	64	1.68	0.96	2.32	2014.033	09:26:37
AK.KTH	107.7	103.9	56	41	70	1.40	1.00	1.92	2014.093	01:58:31
AK.KTH	207.5	92.6	56	50	62	0.48	0.40	0.60	2014.124	09:25:15
AK.KTH	111.0	116.4	61	56	66	1.00	0.88	1.16	2015.033	10:49:49
AK.KTH	263.7	95.0	28	23	33	2.16	2.04	2.32	2015.058	13:45:05
AK.KTH	105.6	102.8	56	52	60	1.16	1.04	1.28	2015.082	04:51:37
AK.KTH	114.2	113.6	62	54	76	1.04	0.76	1.32	2015.264	17:40:01
AK.KTH	257.1	91.7	29	13	46	1.88	1.24	2.60	2015.325	09:06:12
AK.KTH	265.4	98.4	25	19	31	2.00	1.84	2.20	2016.043	10:02:25
AK.KTH	104.7	107.7	53	43	64	1.16	0.88	1.48	2016.217	14:15:12
AK.KTH	263.7	95.0	38	31	43	1.96	1.76	2.16	2016.236	19:39:44
AK.KTH	277.6	99.3	38	29	46	1.44	1.16	1.72	2016.293	00:26:01
AK.KTH	262.9	94.6	39	33	46	2.28	2.00	2.52	2016.340	01:13:05
AK.KTH	103.4	94.5	73	68	80	0.92	0.76	1.08	2016.353	13:30:11
AK.KTH	101.5	105.9	65	62	68	1.20	1.08	1.28	2017.052	14:09:04
AK.KULT	210.6	99.5	-85	-98	-78	0.80	0.52	1.16	2011.108	13:03:03
AK.KULT	211.3	95.8	-85	-94	-78	0.88	0.60	1.16	2013.224	04:16:48
AK.KULT	270.5	98.7	68	60	78	0.72	0.48	0.96	2015.058	13:45:05
AK.KULT	271.5	88.9	50	43	56	1.76	1.48	2.00	2015.076	22:12:29
AK.LOGN	215.0	86.1	-77	-88	-72	0.60	0.44	0.76	2014.202	14:54:41
AK.LOGN	116.6	92.2	1	-7	9	0.92	0.72	1.20	2014.236	23:21:46
AK.LOGN	214.4	85.8	-88	-92	-84	0.48	0.44	0.56	2014.305	18:57:22
AK.LOGN	251.7	86.3	14	-1	37	0.40	0.28	0.60	2010.216	07:15:34
AK.LOGN	215.0	87.1	87	48	114	0.40	0.16	0.92	2010.228	19:35:49
AK.LOGN	214.8	111.2	87	78	92	1.00	0.80	1.16	2010.246	16:35:48
AK.LOGN	212.0	100.4	86	78	92	0.96	0.76	1.20	2011.108	13:03:03
AK.LOGN	215.4	90.4	-77	-90	-72	0.80	0.56	1.08	2011.210	07:42:23

AK.LOGN	212.9	92.4	-75	-88	-72	0.96	0.64	1.24	2015.218	23:59:45
AK.LOGN	112.1	88.4	0	-9	9	0.88	0.56	1.20	2015.330	05:45:18
AK.LOGN	112.4	89.8	0	-11	9	0.80	0.52	1.16	2015.328	22:45:38
AK.LOGN	112.3	89.3	2	-7	9	0.80	0.56	1.04	2015.328	22:50:54
AK.LOGN	215.4	90.7	-79	-94	-72	0.60	0.40	0.88	2017.168	22:26:03
AK.LOGN	215.9	84.4	-74	-80	-76	0.64	0.56	0.72	2017.231	02:00:52
AK.MCAR	211.1	96.7	65	50	86	0.64	0.40	0.96	2013.224	04:16:48
AK.MCAR	212.6	94.1	75	66	86	0.40	0.32	0.48	2013.240	02:54:42
AK.MCAR	114.8	99.7	-17	-48	7	1.08	0.44	1.64	2014.093	01:58:31
AK.MCAR	214.4	92.6	56	48	76	0.56	0.32	0.84	2014.124	09:25:15
AK.MCAR	208.6	95.9	55	41	84	0.56	0.32	0.92	2014.184	19:50:05
AK.MCAR	213.1	86.0	51	48	56	0.80	0.68	1.00	2014.202	14:54:41
AK.MCAR	270.4	86.7	34	21	54	0.84	0.56	1.28	2010.202	09:16:04
AK.MCAR	276.4	85.9	26	21	35	0.96	0.72	1.20	2010.204	22:08:11
AK.MCAR	276.6	85.9	21	17	23	1.16	0.96	1.48	2010.204	23:15:10
AK.MCAR	276.5	86.2	20	17	27	1.16	0.80	1.48	2010.210	07:31:57
AK.MCAR	210.3	99.5	64	52	84	0.44	0.28	0.64	2011.108	13:03:03
AK.MCAR	112.5	86.3	4	-1	11	1.52	1.16	1.92	2011.236	17:46:12
AK.MCAR	297.2	101.2	-47	-58	-39	0.84	0.52	1.28	2011.248	17:55:11
AK.MCAR	210.9	99.1	63	48	88	0.76	0.44	1.24	2013.166	11:20:36
AK.MCAR	211.2	92.4	57	46	78	0.44	0.28	0.68	2015.218	23:59:45
AK.MCAR	213.1	87.0	55	52	62	0.80	0.64	0.96	2016.148	04:08:44
AK.MCAR	214.0	84.3	58	50	72	0.40	0.28	0.56	2017.231	02:00:52
AK.MCAR	213.0	86.0	57	54	62	0.76	0.68	0.88	2016.268	21:28:42
AK.MCK	119.4	116.2	83	58	100	1.20	0.60	1.84	2010.075	02:21:58
AK.MCK	301.1	89.5	69	58	84	1.56	1.04	2.12	2010.089	16:54:47
AK.MCK	266.4	88.4	44	39	52	2.08	1.88	2.32	2010.095	10:05:46
AK.MCK	104.9	91.7	-55	-64	-52	1.16	0.92	1.40	2010.144	16:18:29
AK.MCK	270.8	98.1	55	52	62	1.60	1.32	1.92	2011.069	17:08:37
AK.MCK	107.3	90.1	-51	-64	-37	0.76	0.44	1.12	2011.236	17:46:12
AK.MCK	292.2	97.3	52	43	64	1.76	1.32	2.28	2011.248	17:55:11
AK.MCK	271.6	101.2	56	52	62	1.92	1.68	2.20	2011.286	03:16:30
AK.MCK	111.1	95.5	-37	-56	-13	0.72	0.40	1.20	2012.030	05:11:01
AK.MCK	292.2	97.3	64	58	72	1.60	1.36	1.84	2012.175	04:34:53
AK.MCK	259.3	92.0	47	43	52	2.36	2.16	2.60	2012.345	16:53:09
AK.MCK	287.1	101.9	51	41	62	1.84	1.40	2.40	2013.187	05:05:07
AK.MCK	206.3	97.4	-86	-96	-78	0.52	0.36	0.72	2013.224	04:16:48
AK.MCK	207.6	94.8	-82	-90	-82	0.72	0.60	0.84	2013.240	02:54:42
AK.MCK	204.3	99.3	74	37	100	0.44	0.24	0.96	2014.033	09:26:37
AK.MCK	208.3	93.2	-82	-88	-78	0.76	0.60	0.92	2014.085	03:29:37
AK.MCK	203.7	96.8	-84	-94	-80	0.68	0.44	1.04	2014.184	19:50:05
AK.MCK	258.9	91.4	41	37	48	2.48	2.28	2.68	2014.340	22:05:11
AK.MCK	265.4	95.9	43	39	48	1.92	1.80	2.04	2015.058	13:45:05
AK.MCK	285.9	100.6	50	39	60	1.96	1.56	2.40	2015.135	20:26:56
AK.MCK	260.6	90.0	43	39	46	2.20	2.04	2.40	2015.343	10:21:50
AK.MCK	267.2	99.3	45	39	52	1.88	1.64	2.08	2016.043	10:02:25
AK.MCK	287.6	100.9	52	46	56	1.84	1.60	2.08	2016.153	22:56:01
AK.MCK	204.3	96.7	88	84	92	0.88	0.72	1.04	2016.158	02:35:23
AK.MCK	269.2	102.4	51	50	56	1.92	1.76	2.08	2016.161	04:13:08
AK.MCK	287.6	100.9	52	48	56	1.92	1.72	2.08	2016.153	22:56:01

AK.MCK	204.3	96.7	88	86	90	0.92	0.80	1.04	2016.158	02:35:23
AK.MCK	265.5	95.9	44	41	48	1.88	1.76	2.00	2016.236	19:39:44
AK.MCK	264.7	95.5	45	41	52	2.28	2.08	2.48	2016.340	01:13:05
AK.MCK	105.1	93.7	-57	-66	-54	0.92	0.68	1.12	2016.353	13:30:11
AK.MCK	107.8	108.0	-80	-90	-78	1.72	0.92	2.64	2017.049	12:10:15
AK.MCK	206.5	98.0	-87	-92	-86	0.92	0.76	1.04	2017.180	07:03:11
AK.MCK	285.9	101.9	50	43	58	1.48	1.24	1.76	2017.225	03:08:11
AK.MDM	223.1	85.7	-79	-88	-76	1.48	1.20	1.76	2014.001	16:03:30
AK.MDM	278.0	102.5	40	31	48	1.16	0.88	1.44	2014.025	05:14:21
AK.MDM	220.4	85.8	-82	-92	-74	0.72	0.60	0.84	2014.064	09:56:59
AK.MDM	204.4	98.0	88	76	94	1.56	1.08	2.08	2014.184	19:50:05
AK.MDM	208.3	87.8	-82	-90	-76	1.32	1.12	1.56	2014.202	14:54:41
AK.MDM	207.7	87.6	-80	-88	-80	1.48	1.24	1.80	2014.305	18:57:22
AK.MDM	208.7	91.7	-77	-90	-72	1.36	0.88	1.88	2010.362	08:34:18
AK.MDM	209.7	94.7	-80	-90	-78	1.64	1.40	1.88	2011.052	10:57:52
AK.MDM	206.5	102.4	-77	-88	-74	1.56	1.04	2.08	2011.108	13:03:03
AK.MDM	206.8	96.6	-79	-90	-76	1.84	1.52	2.16	2013.116	06:53:29
AK.MDM	266.2	96.3	32	27	39	1.00	0.88	1.16	2015.058	13:45:05
AK.MDM	107.6	102.1	84	78	88	1.28	1.04	1.56	2015.082	04:51:37
AK.MDM	206.7	94.4	-87	-92	-86	1.72	1.52	1.92	2015.218	23:59:45
AK.MDM	205.8	98.7	80	72	88	1.92	1.68	2.16	2015.236	09:41:26
AK.MDM	266.6	86.4	55	50	64	2.12	1.88	2.32	2015.259	07:40:60
AK.MDM	115.9	113.2	-82	-90	-82	1.88	1.52	2.32	2015.264	17:40:01
AK.MDM	105.7	92.9	86	82	88	2.08	1.76	2.44	2015.330	05:45:18
AK.MDM	288.5	100.8	40	37	48	0.88	0.68	1.04	2016.153	22:56:01
AK.MDM	106.6	106.9	79	74	86	1.76	1.32	2.12	2016.217	14:15:12
AK.MDM	266.3	96.3	30	25	35	1.00	0.88	1.16	2016.236	19:39:44
AK.MDM	222.7	86.3	-81	-92	-76	1.08	0.84	1.32	2017.129	13:52:11
AK.MDM	286.9	101.9	45	39	50	1.20	1.00	1.40	2017.225	03:08:11
AK.MESA	214.3	89.1	64	48	98	0.44	0.20	0.76	2010.362	08:34:18
AK.MESA	214.5	89.6	-73	-94	-68	0.60	0.28	0.92	2011.210	07:42:23
AK.MESA	213.4	93.4	-87	-104	-78	0.52	0.32	0.72	2013.240	02:54:42
AK.MLY	205.4	87.2	43	37	48	1.16	0.92	1.48	2014.305	18:57:22
AK.MLY	257.3	90.9	35	29	43	0.84	0.72	0.96	2014.340	22:05:11
AK.MLY	264.7	87.8	35	27	43	1.00	0.84	1.16	2010.095	10:05:46
AK.MLY	264.2	85.9	38	35	46	1.08	0.96	1.20	2010.215	12:08:26
AK.MLY	206.5	91.2	68	39	100	0.88	0.28	1.48	2010.362	08:34:18
AK.MLY	203.2	88.0	47	41	54	1.36	1.04	1.76	2011.043	17:57:57
AK.MLY	207.5	94.2	62	52	70	1.08	0.84	1.36	2011.052	10:57:52
AK.MLY	269.4	97.3	37	27	50	0.52	0.44	0.64	2011.069	17:08:37
AK.MLY	204.5	102.0	64	52	80	0.84	0.56	1.20	2011.108	13:03:03
AK.MLY	106.1	106.5	48	37	64	1.20	0.84	1.60	2011.171	16:36:01
AK.MLY	206.8	91.7	49	43	60	0.84	0.60	1.16	2011.210	07:42:23
AK.MLY	270.2	100.4	28	17	50	0.68	0.44	1.00	2011.286	03:16:30
AK.MLY	100.5	102.1	62	56	72	1.36	1.16	1.56	2011.326	18:48:16
AK.MLY	109.4	96.7	51	35	82	0.84	0.52	1.32	2012.030	05:11:01
AK.MLY	254.3	86.3	36	33	41	1.20	1.08	1.32	2012.252	10:51:44
AK.MLY	259.2	89.9	43	13	66	0.68	0.32	1.28	2012.282	11:43:31
AK.MLY	257.7	91.5	32	27	37	0.76	0.72	0.84	2012.345	16:53:09
AK.MLY	265.6	88.7	36	27	46	0.92	0.72	1.08	2012.352	09:16:31

AK.MLY	217.1	89.5	9	-1	19	1.16	0.84	1.56	2013.103	22:49:51
AK.MLY	204.6	96.2	67	56	80	1.04	0.76	1.40	2013.116	06:53:29
AK.MLY	204.9	98.3	63	56	74	1.08	0.84	1.32	2013.224	04:16:48
AK.MLY	206.1	95.6	58	50	70	0.84	0.60	1.12	2013.240	02:54:42
AK.MLY	266.3	96.3	30	23	41	0.68	0.56	0.84	2013.264	01:39:15
AK.MLY	207.2	92.7	49	35	88	0.80	0.32	1.64	2014.124	09:15:53
AK.MLY	105.3	108.4	45	35	56	1.84	1.28	2.44	2015.042	18:57:19
AK.MLY	264.0	95.2	36	31	39	0.64	0.60	0.68	2015.058	13:45:05
AK.MLY	106.5	107.1	43	35	52	1.92	1.40	2.40	2015.161	13:52:09
AK.MLY	204.5	94.0	57	48	72	0.72	0.52	1.00	2015.218	23:59:45
AK.MLY	203.7	98.3	50	41	58	1.28	0.92	1.64	2015.236	09:41:26
AK.MLY	261.4	95.2	41	27	54	0.68	0.52	0.88	2015.308	03:44:15
AK.MLY	103.4	93.9	41	35	48	1.52	1.24	1.80	2015.330	05:45:18
AK.MLY	259.0	89.4	25	19	31	0.92	0.80	1.04	2015.343	10:21:50
AK.MLY	265.8	98.6	32	23	41	0.60	0.48	0.68	2016.043	10:02:25
AK.MLY	286.1	99.8	-88	-96	-86	0.92	0.52	1.36	2016.153	22:56:01
AK.MLY	262.3	91.5	32	29	37	0.88	0.80	0.92	2016.157	16:25:34
AK.MLY	267.8	101.7	52	41	62	0.56	0.48	0.68	2016.161	04:13:08
AK.MLY	267.8	101.7	46	37	56	0.72	0.60	0.88	2016.161	04:13:08
AK.MLY	264.0	95.3	28	27	35	0.68	0.60	0.72	2016.236	19:39:44
AK.MLY	263.2	94.9	43	35	50	0.68	0.56	0.76	2016.340	01:13:05
AK.MLY	259.0	93.2	29	19	41	0.68	0.56	0.80	2016.356	00:17:15
AK.MLY	205.1	98.8	79	66	88	1.60	1.16	2.04	2017.180	07:03:11
AK.NEA	108.8	98.7	65	50	80	1.52	1.00	2.04	2012.159	16:03:19
AK.NEA	292.2	96.9	54	43	70	0.96	0.68	1.36	2012.175	04:34:53
AK.NEA	259.2	92.1	43	31	56	1.92	1.48	2.40	2012.345	16:53:09
AK.NEA	206.1	96.1	88	84	94	1.52	1.28	1.80	2013.116	06:53:29
AK.NEA	204.9	87.6	81	76	88	1.20	1.04	1.40	2013.143	21:07:47
AK.NEA	205.2	98.0	61	48	76	1.44	1.00	1.80	2013.284	21:25:00
AK.NEA	208.7	92.6	-81	-90	-78	1.32	1.00	1.64	2014.124	09:15:53
AK.NEA	209.2	93.9	87	78	94	1.56	1.24	1.88	2014.124	09:25:15
AK.NEA2	203.6	97.5	82	76	88	1.40	1.20	1.60	2014.184	19:50:05
AK.NEA2	207.5	87.4	-86	-110	-78	1.00	0.56	1.56	2014.202	14:54:41
AK.NEA2	115.6	114.3	74	64	84	1.24	1.00	1.52	2014.235	22:32:24
AK.NEA2	109.2	97.1	63	52	78	1.72	1.28	2.16	2014.236	23:21:46
AK.NEA2	206.9	87.1	-87	-94	-86	1.20	0.92	1.40	2014.305	18:57:22
AK.NEA2	265.4	95.9	45	41	52	1.80	1.64	1.96	2015.058	13:45:05
AK.NEA2	107.0	102.3	57	43	74	2.04	1.32	2.64	2015.082	04:51:37
AK.NEA2	205.1	98.2	79	74	84	1.72	1.52	1.88	2015.236	09:41:26
AK.NEA2	265.9	86.0	44	39	50	2.52	2.40	2.68	2015.259	07:40:60
AK.NEA2	115.3	113.3	89	84	92	1.68	1.40	1.96	2015.264	17:40:01
AK.NEA2	104.9	93.1	73	64	82	1.68	1.24	2.16	2015.330	05:45:18
AK.NEA2	260.5	90.1	45	37	54	2.04	1.72	2.28	2015.343	10:21:50
AK.NEA2	287.6	100.6	62	52	70	1.32	1.04	1.64	2016.153	22:56:01
AK.NEA2	263.8	92.1	46	37	54	1.88	1.64	2.08	2016.157	16:25:34
AK.NEA2	265.6	86.5	42	37	48	2.24	2.08	2.44	2016.159	19:15:16
AK.NEA2	269.3	102.4	47	39	54	1.76	1.48	2.04	2016.161	04:13:08
AK.NEA2	287.6	100.6	60	50	72	1.32	0.96	1.64	2016.153	22:56:01
AK.NEA2	265.5	95.9	49	43	56	1.84	1.68	2.04	2016.236	19:39:44
AK.NEA2	264.6	95.6	39	29	48	1.64	1.32	2.00	2016.340	01:13:05

AK.NEA2	208.4	92.0	-86	-92	-82	1.56	1.32	1.80	2017.168	22:26:03
AK.NICH	120.9	109.2	-17	-39	1	0.40	0.24	0.60	2015.264	17:40:01
AK.NICH	270.4	88.7	36	19	58	0.52	0.32	0.76	2016.159	19:15:16
AK.NKA	257.2	90.3	15	7	21	1.72	1.56	1.96	2012.345	16:53:09
AK.PAX	273.2	87.0	39	15	72	0.32	0.12	0.60	2011.041	14:41:59
AK.PAX	222.7	90.8	-13	-31	9	0.56	0.40	0.84	2011.130	08:55:09
AK.PAX	105.5	99.4	34	23	56	0.44	0.20	0.76	2011.326	18:48:16
AK.PAX	110.0	111.4	72	46	88	0.36	0.20	0.52	2012.149	05:07:24
AK.PAX	295.3	99.0	-31	-58	9	0.40	0.16	0.88	2012.175	04:34:53
AK.PAX	289.0	103.6	-25	-56	-3	0.40	0.24	0.56	2017.225	03:08:11
AK.PIN	117.3	91.6	-5	-23	7	0.60	0.44	0.88	2014.236	23:21:46
AK.PIN	114.5	107.0	-36	-52	-13	0.44	0.28	0.72	2011.001	09:56:58
AK.PIN	216.0	90.0	-76	-86	-70	1.48	1.04	2.00	2011.210	07:42:23
AK.PIN	115.3	96.9	-11	-37	7	0.60	0.32	0.96	2015.082	04:51:37
AK.PIN	112.8	87.8	1	-7	7	0.84	0.60	1.12	2015.330	05:45:18
AK.PNL	116.0	96.3	-30	-43	-17	1.08	0.72	1.44	2015.082	04:51:37
AK.PNL	113.5	87.2	-32	-41	-25	1.24	1.00	1.48	2015.330	05:45:18
AK.PNL	113.8	88.6	-34	-41	-33	1.44	1.28	1.60	2015.328	22:45:38
AK.PNL	113.7	88.1	-30	-37	-29	1.32	1.16	1.48	2015.328	22:50:54
AK.PNL	112.1	99.5	-28	-39	-19	1.28	1.00	1.56	2017.052	14:09:04
AK.PPD	295.6	97.9	72	58	84	0.52	0.36	0.68	2012.175	04:34:53
AK.PPD	209.2	97.7	-81	-90	-78	1.16	0.88	1.44	2013.116	06:53:29
AK.PPD	209.3	99.7	87	68	96	0.80	0.52	1.12	2013.224	04:16:48
AK.PPD	210.6	97.1	-77	-90	-74	1.32	0.96	1.64	2013.240	02:54:42
AK.PPD	208.3	99.5	62	50	84	0.96	0.68	1.32	2013.284	21:25:00
AK.PPD	207.2	101.6	73	50	94	1.20	0.68	1.76	2014.033	09:26:37
AK.PPD	211.9	94.1	90	72	98	1.00	0.72	1.36	2014.124	09:15:53
AK.PPD	117.9	112.4	86	68	94	0.72	0.44	1.00	2015.264	17:40:01
AK.PPD	210.6	88.9	-85	-114	-74	0.64	0.36	1.04	2016.268	21:28:42
AK.PPLA	204.8	93.4	85	76	92	0.84	0.64	1.04	2013.240	02:54:42
AK.PPLA	112.6	112.6	71	62	82	0.88	0.68	1.04	2013.304	23:03:59
AK.PPLA	206.4	91.8	-86	-96	-78	0.76	0.52	1.04	2014.124	09:25:15
AK.PPLA	200.9	95.4	85	46	100	0.48	0.20	1.04	2014.184	19:50:05
AK.PPLA	113.8	114.8	84	70	90	0.68	0.44	1.00	2014.235	22:32:24
AK.PPLA	106.7	97.9	69	62	80	0.84	0.72	1.00	2014.236	23:21:46
AK.PPLA	263.5	86.9	32	25	35	2.76	2.48	3.00	2010.095	10:05:46
AK.PPLA	105.7	102.3	76	66	84	0.84	0.64	1.04	2010.126	02:42:48
AK.PPLA	296.6	90.7	53	48	60	1.60	1.32	1.92	2010.151	19:51:56
AK.PPLA	206.2	92.1	84	78	90	0.76	0.64	0.92	2011.052	10:57:52
AK.PPLA	267.8	96.6	38	31	41	2.24	2.08	2.40	2011.069	17:08:37
AK.PPLA	203.1	99.8	89	72	96	0.80	0.52	1.12	2011.108	13:03:03
AK.PPLA	105.5	106.5	69	62	76	1.04	0.88	1.24	2011.171	16:36:01
AK.PPLA	268.6	99.8	39	33	43	2.24	2.04	2.48	2011.286	03:16:30
AK.PPLA	108.3	96.6	82	72	90	1.36	0.92	1.76	2012.030	05:11:01
AK.PPLA	106.3	99.5	76	66	88	1.00	0.72	1.28	2012.159	16:03:19
AK.PPLA	203.3	94.0	57	41	80	0.72	0.44	1.04	2013.116	06:53:29
AK.PPLA	110.3	116.7	86	84	90	1.36	1.12	1.64	2015.033	10:49:49
AK.PPLA	262.5	94.3	34	29	41	2.24	2.00	2.44	2015.058	13:45:05
AK.PPLA	104.6	103.2	77	70	84	0.80	0.64	1.00	2015.082	04:51:37
AK.PPLA	203.2	91.8	81	70	90	0.72	0.52	0.96	2015.218	23:59:45

AK.PPLA	113.5	113.9	73	64	84	0.88	0.68	1.08	2015.264	17:40:01
AK.PPLA	256.0	91.0	26	17	35	2.16	1.80	2.52	2015.325	09:06:12
AK.PPLA	102.3	94.1	78	76	84	0.88	0.72	1.04	2015.330	05:45:18
AK.PPLA	261.0	90.5	-55	-64	-52	1.68	1.48	1.84	2016.157	16:25:34
AK.PPLA	266.1	100.9	44	41	52	1.96	1.72	2.16	2016.161	04:13:08
AK.PPLA	103.9	108.1	78	72	82	0.72	0.64	0.84	2016.217	14:15:12
AK.PPLA	102.3	94.9	78	74	84	0.80	0.64	0.92	2016.353	13:30:11
AK.PPLA	105.3	109.2	79	74	88	1.88	1.64	2.12	2017.049	12:10:15
AK.PS01	288.1	100.3	44	33	64	1.08	0.68	1.64	2010.064	16:07:01
AK.PS01	263.1	89.3	39	27	50	1.08	0.88	1.28	2010.073	00:57:45
AK.PS01	107.3	103.0	61	31	90	0.52	0.24	0.92	2010.126	02:42:48
AK.PS01	295.2	94.8	45	41	54	1.24	0.92	1.52	2010.129	05:59:42
AK.PS01	104.9	93.3	71	64	80	0.72	0.60	0.84	2010.144	16:18:29
AK.PS01	299.9	88.5	52	48	60	0.92	0.72	1.16	2010.151	19:51:56
AK.PS01	209.6	96.3	-84	-104	-78	0.72	0.44	1.28	2010.181	04:31:02
AK.PS01	208.6	96.2	83	64	94	0.52	0.40	0.72	2010.362	08:34:18
AK.PS01	205.2	93.1	63	56	72	0.64	0.56	0.76	2011.043	17:57:57
AK.PS01	209.7	99.2	80	60	92	0.48	0.36	0.64	2011.052	10:57:52
AK.PS01	106.2	103.4	64	50	80	0.88	0.56	1.24	2011.065	12:31:60
AK.PS01	272.1	98.0	44	35	58	0.72	0.60	0.84	2011.069	17:08:37
AK.PS01	279.6	103.9	40	25	62	0.84	0.56	1.28	2011.093	20:06:40
AK.PS01	106.5	107.2	48	39	64	0.92	0.72	1.20	2011.171	16:36:01
AK.PS01	208.9	96.7	85	70	94	0.52	0.44	0.68	2011.210	07:42:23
AK.PS01	263.0	90.0	47	35	58	0.80	0.60	1.04	2011.228	11:03:58
AK.PS01	107.5	91.9	64	50	78	0.60	0.48	0.68	2011.236	17:46:12
AK.PS01	104.4	115.1	68	56	80	0.72	0.56	0.92	2011.245	13:47:10
AK.PS01	204.1	87.3	78	66	90	0.84	0.64	1.08	2011.248	09:52:01
AK.PS01	293.2	94.9	47	43	54	1.04	0.88	1.16	2011.248	17:55:11
AK.PS01	208.6	94.4	79	70	88	0.56	0.52	0.64	2011.258	19:31:04
AK.PS01	273.2	101.1	37	27	50	1.16	0.84	1.44	2011.286	03:16:30
AK.PS01	101.3	102.3	67	62	74	0.64	0.56	0.72	2011.326	18:48:16
AK.PS01	110.7	97.7	75	62	88	0.72	0.56	0.92	2012.030	05:11:01
AK.PS01	204.6	90.8	89	78	94	0.76	0.60	1.04	2012.119	10:08:08
AK.PS01	106.3	102.9	64	54	76	0.60	0.48	0.72	2012.135	10:00:40
AK.PS01	108.3	100.4	64	52	80	0.84	0.64	1.04	2012.159	16:03:19
AK.PS01	293.2	94.9	47	43	52	0.92	0.80	1.04	2012.175	04:34:53
AK.PS01	294.9	95.7	47	41	62	1.04	0.68	1.40	2012.207	00:27:45
AK.PS01	267.5	89.8	49	39	60	0.76	0.60	0.96	2012.352	09:16:31
AK.PS01	206.8	101.3	77	56	92	0.52	0.36	0.72	2013.116	06:53:29
AK.PS01	205.1	90.2	77	66	88	0.84	0.68	1.04	2013.131	20:46:58
AK.PS01	205.3	92.8	57	52	66	0.76	0.60	0.88	2013.143	21:07:47
AK.PS01	280.0	104.2	40	29	52	0.92	0.72	1.24	2013.164	16:47:23
AK.PS01	294.9	93.7	47	41	58	0.92	0.64	1.16	2013.183	07:37:03
AK.PS01	288.6	100.0	49	41	62	0.96	0.76	1.24	2013.187	05:05:07
AK.PS01	209.8	115.1	64	43	94	0.52	0.32	0.96	2013.202	05:09:32
AK.PS01	259.7	93.9	44	35	52	0.76	0.60	0.92	2013.224	00:53:44
AK.PS01	208.3	100.6	80	76	88	0.52	0.44	0.56	2013.240	02:54:42
AK.PS01	261.1	94.7	35	9	62	0.76	0.48	1.24	2013.244	11:52:30
AK.PS04	242.9	87.8	41	37	46	1.12	0.96	1.28	2011.348	05:04:59
AK.PS04	220.7	90.8	7	-15	21	0.72	0.48	1.08	2012.337	00:54:23

AK.PS05	257.4	91.3	47	31	60	0.92	0.60	1.28	2014.340	22:05:11
AK.PS05	285.5	100.6	64	43	82	1.04	0.72	1.44	2010.064	16:07:01
AK.PS05	299.5	87.3	57	46	76	1.16	0.64	1.68	2010.089	16:54:47
AK.PS05	291.5	96.4	74	66	82	1.16	1.00	1.36	2010.096	22:15:02
AK.PS05	103.2	93.2	65	60	74	0.76	0.64	0.88	2010.144	16:18:29
AK.PS05	298.0	89.5	52	50	58	1.20	1.04	1.44	2010.151	19:51:56
AK.PS05	207.6	92.9	82	70	90	0.72	0.56	0.92	2010.181	04:31:02
AK.PS05	105.8	107.4	74	54	88	1.04	0.60	1.60	2010.193	00:11:21
AK.PS05	206.6	92.8	69	46	90	0.48	0.32	0.76	2010.362	08:34:18
AK.PS05	203.0	90.8	65	43	88	0.72	0.44	1.08	2011.031	06:03:27
AK.PS05	203.3	89.7	65	56	78	0.80	0.64	1.00	2011.043	17:57:57
AK.PS05	207.6	95.8	68	62	74	0.76	0.68	0.84	2011.052	10:57:52
AK.PS05	269.7	97.3	60	52	68	1.08	0.84	1.36	2011.069	17:08:37
AK.PS05	204.7	103.6	51	39	72	0.88	0.52	1.40	2011.108	13:03:03
AK.PS05	105.6	107.0	78	68	86	1.16	0.88	1.48	2011.171	16:36:01
AK.PS05	206.9	93.3	75	66	86	0.76	0.64	0.88	2011.210	07:42:23
AK.PS05	205.3	85.6	57	39	84	0.64	0.40	1.08	2011.231	03:54:27
AK.PS05	105.7	91.6	74	62	84	1.08	0.84	1.40	2011.236	17:46:12
AK.PS05	291.0	95.5	71	66	76	1.08	0.92	1.16	2011.248	17:55:11
AK.PS05	206.7	91.0	63	48	84	0.68	0.44	0.92	2011.258	19:31:04
AK.PS05	100.2	102.4	50	48	58	0.88	0.80	0.96	2011.326	18:48:16
AK.PS05	105.2	102.7	59	56	66	1.20	1.08	1.36	2012.135	10:00:40
AK.PS05	104.0	114.7	58	50	64	1.08	0.92	1.28	2012.149	05:07:24
AK.PS05	291.0	95.5	63	60	70	1.16	0.96	1.32	2012.175	04:34:53
AK.PS05	292.6	96.4	57	50	66	1.64	1.28	2.08	2012.207	00:27:45
AK.PS05	270.7	102.0	63	58	70	1.56	1.28	1.88	2012.247	18:23:05
AK.PS05	286.1	100.3	66	62	74	1.20	1.04	1.40	2012.258	04:51:47
AK.PS05	106.7	92.6	43	33	56	2.40	1.76	2.88	2012.315	14:57:51
AK.PS05	203.4	89.4	79	64	90	0.72	0.52	1.00	2013.143	21:07:47
AK.PS05	205.1	99.9	75	64	88	0.64	0.52	0.80	2013.224	04:16:48
AK.PS05	206.2	97.2	-88	-94	-84	0.64	0.48	0.76	2013.240	02:54:42
AK.PS05	266.6	96.4	55	48	64	1.44	1.12	1.80	2013.264	01:39:15
AK.PS05	206.9	95.6	89	78	96	0.68	0.48	0.92	2014.085	03:29:37
AK.PS05	202.4	99.3	86	74	92	0.80	0.56	1.08	2014.184	19:50:05
AK.PS05	107.5	98.4	52	41	66	1.44	1.12	1.84	2014.236	23:21:46
AK.PS06	300.4	88.1	74	64	88	0.88	0.68	1.12	2010.089	16:54:47
AK.PS06	286.0	101.4	50	37	64	0.76	0.56	1.00	2010.125	16:29:03
AK.PS06	104.1	92.6	72	58	86	0.68	0.48	0.88	2010.144	16:18:29
AK.PS06	298.9	90.3	75	72	82	1.04	0.92	1.16	2010.151	19:51:56
AK.PS06	208.4	95.2	84	78	90	1.24	1.00	1.48	2011.052	10:57:52
AK.PS06	207.7	92.6	84	72	90	0.92	0.72	1.16	2011.210	07:42:23
AK.PS06	291.7	96.2	86	80	88	1.12	0.92	1.24	2011.248	17:55:11
AK.PS06	101.2	101.8	-7	-17	-1	1.44	0.96	1.88	2011.326	18:48:16
AK.PS06	106.2	102.1	60	43	82	0.64	0.40	0.84	2012.135	10:00:40
AK.PS06	291.7	96.2	84	80	86	1.08	1.00	1.16	2012.175	04:34:53
AK.PS06	286.8	101.0	79	74	86	0.88	0.76	1.04	2012.258	04:51:47
AK.PS06	286.8	100.9	85	78	88	1.20	0.88	1.56	2013.187	05:05:07
AK.PS06	205.8	99.2	88	76	92	1.32	0.92	1.68	2013.224	04:16:48
AK.PS06	208.1	111.1	60	48	82	1.28	0.88	1.84	2013.228	02:31:06
AK.PS06	207.0	96.5	-87	-94	-84	1.20	0.96	1.44	2013.240	02:54:42

AK.PS06	208.1	93.6	86	76	96	1.16	0.80	1.56	2014.124	09:15:53
AK.PS06	206.9	88.3	89	82	96	0.92	0.76	1.32	2014.202	14:54:41
AK.PS06	108.5	97.8	42	31	74	0.68	0.40	1.20	2014.236	23:21:46
AK.PS07	208.2	96.3	68	64	74	1.40	1.20	1.56	2013.240	02:54:42
AK.PS07	204.9	100.9	77	58	92	1.20	0.72	1.72	2014.033	09:26:37
AK.PS07	220.4	86.0	88	74	102	0.80	0.56	1.12	2014.064	09:56:59
AK.PS07	209.4	93.4	85	70	96	1.20	0.68	1.72	2014.124	09:15:53
AK.PS07	209.9	94.7	64	58	72	1.48	1.16	1.76	2014.124	09:25:15
AK.PS07	204.3	98.3	64	60	74	1.16	1.00	1.36	2014.184	19:50:05
AK.PS07	293.5	98.2	87	62	96	0.80	0.48	1.32	2014.186	09:39:30
AK.PS07	208.2	88.1	68	64	78	1.16	1.00	1.36	2014.202	14:54:41
AK.PS07	109.9	97.0	76	64	86	1.08	0.84	1.32	2014.236	23:21:46
AK.PS07	207.6	87.9	64	60	70	1.04	0.92	1.12	2014.305	18:57:22
AK.PS08	303.0	89.9	73	64	84	1.04	0.80	1.28	2010.089	16:54:47
AK.PS08	268.3	89.4	48	37	60	1.12	0.84	1.44	2010.095	10:05:46
AK.PS08	294.8	98.7	79	60	90	1.08	0.68	1.52	2010.096	22:15:02
AK.PS08	106.7	91.1	-29	-43	-19	0.52	0.40	0.64	2010.144	16:18:29
AK.PS08	301.5	92.0	78	70	84	0.88	0.76	1.00	2010.151	19:51:56
AK.PS08	211.3	112.8	89	66	102	0.72	0.44	1.20	2010.246	16:35:48
AK.PS08	272.9	99.0	45	39	54	0.96	0.80	1.12	2011.069	17:08:37
AK.PS08	207.6	102.3	-86	-96	-82	0.72	0.56	1.04	2011.108	13:03:03
AK.PS08	264.0	94.2	48	41	58	1.12	0.92	1.32	2011.242	06:57:42
AK.PS08	294.3	97.9	76	68	86	0.92	0.72	1.08	2011.248	17:55:11
AK.PS08	245.4	87.0	33	21	43	0.92	0.68	1.12	2011.348	05:04:59
AK.PS08	294.3	97.8	78	76	84	1.00	0.88	1.12	2012.175	04:34:53
AK.PS08	211.0	109.0	75	56	92	0.52	0.32	0.72	2012.185	10:36:16
AK.PS08	267.6	86.4	46	41	50	1.48	1.32	1.64	2012.239	15:05:37
AK.PS08	223.1	88.6	7	-21	27	1.12	0.48	1.80	2012.337	00:54:23
AK.PS08	261.2	93.1	51	46	56	1.36	1.16	1.56	2012.345	16:53:09
AK.PS08	289.3	102.5	69	54	82	1.00	0.72	1.24	2013.187	05:05:07
AK.PS08	208.2	98.6	-88	-106	-78	0.76	0.44	1.24	2013.224	04:16:48
AK.PS08	209.5	95.9	-85	-92	-82	0.64	0.52	0.80	2013.240	02:54:42
AK.PS08	219.3	92.2	35	33	37	4.00	2.56	4.00	2014.121	06:36:35
AK.PS08	205.5	97.9	-86	-96	-84	0.92	0.68	1.24	2014.184	19:50:05
AK.PS09	110.2	88.8	-26	-46	-11	0.88	0.60	1.12	2011.236	17:46:12
AK.PS09	224.2	89.4	-4	-25	17	0.88	0.56	1.20	2012.033	13:34:41
AK.PS10	304.0	90.9	80	70	88	0.80	0.64	0.92	2010.089	16:54:47
AK.PS10	295.6	99.6	84	64	94	0.72	0.52	1.04	2010.096	22:15:02
AK.PS10	297.2	98.8	89	60	102	0.68	0.32	1.00	2010.129	05:59:42
AK.PS10	302.4	93.0	86	82	90	0.76	0.68	0.88	2010.151	19:51:56
AK.PS10	272.9	86.9	65	60	74	0.60	0.48	0.72	2011.041	14:41:59
AK.PS10	269.1	86.7	57	46	68	0.52	0.36	0.64	2011.164	14:31:23
AK.PS10	264.9	94.6	61	43	76	0.60	0.32	0.88	2011.242	06:57:42
AK.PS10	295.1	98.7	-83	-94	-80	0.88	0.60	1.20	2011.248	17:55:11
AK.PS10	109.6	111.7	-22	-54	3	0.24	0.16	0.52	2012.149	05:07:24
AK.PS10	295.1	98.7	-87	-92	-86	1.08	0.92	1.20	2012.175	04:34:53
AK.PS10	209.0	97.8	5	-5	11	1.08	0.88	1.28	2013.224	04:16:48
AK.PS10	210.3	95.2	86	72	98	0.44	0.28	0.60	2013.240	02:54:42
AK.PS10	222.8	85.3	-21	-29	-15	0.56	0.44	0.76	2014.064	09:56:59
AK.PS11	302.6	93.8	-17	-41	7	0.44	0.28	0.68	2010.151	19:51:56

AK.PS11	273.7	99.7	38	17	66	0.40	0.20	0.68	2011.069	17:08:37
AK.PS11	269.5	86.9	39	33	48	1.28	1.04	1.48	2011.164	14:31:23
AK.PS11	110.4	88.0	-10	-17	-7	1.28	1.08	1.48	2011.236	17:46:12
AK.PS11	110.3	111.1	-40	-54	-19	0.36	0.20	0.52	2012.149	05:07:24
AK.PS11	262.3	93.3	24	17	35	0.92	0.72	1.16	2012.345	16:53:09
AK.PS11	209.1	96.7	57	43	80	0.92	0.48	1.40	2013.224	04:16:48
AK.PS11	210.5	94.1	53	46	64	0.68	0.48	0.88	2013.240	02:54:42
AK.PS12	259.5	87.9	27	19	35	0.96	0.76	1.16	2012.252	10:51:44
AK.PTPK	214.8	92.6	87	43	112	0.20	0.08	0.52	2014.124	09:25:15
AK.PTPK	271.5	88.2	34	23	46	1.40	0.96	1.92	2014.325	10:10:20
AK.PTPK	276.8	86.7	49	41	56	0.68	0.56	0.80	2014.336	05:11:32
AK.PTPK	264.5	93.9	42	15	70	0.36	0.20	0.56	2014.340	22:05:11
AK.PTPK	295.4	104.1	53	46	62	1.64	1.20	2.12	2015.062	10:37:31
AK.PTPK	213.9	86.7	58	48	76	0.44	0.28	0.68	2015.167	06:17:01
AK.PTPK	264.4	95.2	44	35	56	1.36	1.00	1.76	2015.325	09:06:12
AK.PTPK	270.9	98.8	39	27	52	0.76	0.56	1.00	2016.236	19:39:44
AK.PTPK	211.8	97.2	84	60	98	0.52	0.32	0.72	2017.180	07:03:11
AK.PWL	256.7	86.3	-43	-56	-35	0.64	0.48	0.84	2012.252	10:51:44
AK.PWL	287.0	103.0	-51	-58	-48	1.00	0.80	1.20	2012.258	04:51:47
AK.PWL	259.7	91.8	-58	-68	-56	0.48	0.44	0.56	2012.345	16:53:09
AK.PWL	277.7	105.7	-40	-54	-33	0.88	0.72	1.04	2013.164	16:47:23
AK.PWL	259.3	91.1	-59	-86	-33	0.32	0.16	0.52	2014.340	22:05:11
AK.PWL	107.8	88.9	-24	-43	-11	0.48	0.36	0.64	2011.236	17:46:12
AK.PWL	292.4	98.7	-50	-58	-41	1.20	0.76	1.56	2011.248	17:55:11
AK.PWL	271.6	101.6	-46	-66	-33	0.80	0.52	1.08	2011.286	03:16:30
AK.PWL	265.7	95.9	-50	-66	-43	0.60	0.44	0.72	2015.058	13:45:05
AK.PWL	265.8	96.0	-66	-82	-60	1.44	0.92	1.80	2016.236	19:39:44
AK.PWL	264.9	95.5	-49	-64	-41	0.84	0.64	1.04	2016.340	01:13:05
AK.PWL	105.8	92.7	-26	-52	-9	0.24	0.16	0.36	2016.353	13:30:11
AK.PWL	285.9	103.0	-48	-58	-48	1.12	0.92	1.32	2017.225	03:08:11
AK.RAG	262.9	93.5	29	7	58	0.32	0.16	0.56	2012.345	16:53:09
AK.RAG	274.6	85.5	51	37	64	1.24	0.84	1.64	2010.205	05:35:01
AK.RAG	211.9	88.5	-86	-102	-78	0.76	0.48	1.04	2010.362	08:34:18
AK.RAG	270.3	87.2	56	46	68	1.00	0.68	1.32	2011.164	14:31:23
AK.RAG	268.8	97.7	55	39	68	0.52	0.40	0.72	2015.058	13:45:05
AK.RC01	285.2	102.5	-33	-50	-19	1.04	0.72	1.40	2010.064	16:07:01
AK.RC01	291.7	98.9	-26	-37	-21	1.72	1.40	2.08	2010.096	22:15:02
AK.RC01	285.0	102.7	-35	-41	-31	1.08	0.92	1.24	2010.125	16:29:03
AK.RC01	293.2	98.1	-27	-35	-23	1.48	1.28	1.72	2010.129	05:59:42
AK.RC01	298.8	92.6	-27	-33	-25	1.40	1.28	1.56	2010.151	19:51:56
AK.RC01	269.8	97.7	-52	-64	-46	0.68	0.56	0.84	2011.069	17:08:37
AK.RC01	281.3	103.3	-39	-52	-29	0.92	0.68	1.16	2011.234	20:12:21
AK.RC01	106.6	89.7	-53	-60	-48	1.00	0.76	1.24	2011.236	17:46:12
AK.RC01	291.2	98.0	-31	-37	-27	1.28	1.12	1.48	2011.248	17:55:11
AK.RC01	292.7	99.0	-27	-39	-19	1.20	0.96	1.48	2012.207	00:27:45
AK.RC01	285.8	102.3	-36	-43	-33	1.04	0.96	1.16	2012.258	04:51:47
AK.RC01	276.6	105.0	-31	-43	-23	0.88	0.72	1.08	2013.164	16:47:23
AK.RC01	146.4	89.9	-56	-64	-50	2.12	1.68	2.60	2013.306	15:52:46
AK.RC01	275.8	102.3	-34	-48	-29	0.76	0.60	0.96	2014.025	05:14:21
AK.RC01	207.5	90.7	76	46	98	0.28	0.12	0.44	2014.085	03:29:37

AK.RC01	288.7	100.9	-27	-39	-19	1.04	0.80	1.32	2015.062	10:37:31
AK.RC01	286.4	101.3	-34	-39	-31	1.20	1.04	1.36	2016.153	22:56:01
AK.RC01	267.9	102.0	-36	-46	-31	0.96	0.80	1.16	2016.161	04:13:08
AK.RC01	286.4	101.3	-36	-41	-33	1.16	1.08	1.28	2016.153	22:56:01
AK.RC01	264.6	95.3	-55	-72	-43	0.52	0.36	0.64	2016.236	19:39:44
AK.RC01	278.3	100.1	-36	-46	-29	0.92	0.76	1.08	2016.293	00:26:01
AK.RC01	284.7	102.3	-39	-46	-39	1.04	0.96	1.12	2017.225	03:08:11
AK.RDOG	255.1	94.4	41	33	46	0.64	0.56	0.72	2016.043	10:02:25
AK.RDOG	253.0	91.1	43	37	50	0.76	0.64	0.92	2015.058	13:45:05
AK.RDOG	277.5	93.8	37	27	56	0.64	0.44	0.88	2015.062	10:37:31
AK.RDOG	273.6	94.3	40	25	58	0.48	0.32	0.64	2015.135	20:26:56
AK.RIDG	274.2	85.1	72	64	80	0.88	0.64	1.12	2010.205	05:35:01
AK.RIDG	110.5	111.5	-32	-41	-25	0.44	0.36	0.52	2012.065	07:46:10
AK.RIDG	110.2	111.4	-36	-48	-27	0.48	0.40	0.60	2012.149	05:07:24
AK.RIDG	112.6	96.7	-43	-56	-29	0.76	0.48	1.12	2012.159	16:03:19
AK.RIDG	269.5	87.3	39	35	43	0.80	0.72	0.84	2012.239	15:05:37
AK.RIDG	208.8	98.1	61	50	78	0.92	0.60	1.36	2013.284	21:25:00
AK.RIDG	223.6	85.8	-4	-19	5	0.92	0.68	1.16	2014.064	09:56:59
AK.RIDG	211.8	94.2	58	52	64	1.08	0.88	1.28	2014.085	03:29:37
AK.RIDG	115.9	114.0	-32	-56	3	0.28	0.16	0.56	2015.033	10:49:49
AK.RIDG	209.6	94.0	56	50	62	1.08	0.88	1.32	2015.218	23:59:45
AK.RIDG	264.3	91.8	32	19	50	0.60	0.40	0.80	2015.343	10:21:50
AK.RIDG	267.6	93.9	32	23	41	0.48	0.40	0.56	2016.157	16:25:34
AK.RIDG	269.5	88.3	43	33	54	0.80	0.64	1.00	2016.159	19:15:16
AK.RIDG	269.5	88.3	43	33	54	0.80	0.64	1.00	2016.159	19:15:16
AK.RIDG	109.9	105.2	-34	-56	-15	0.44	0.28	0.64	2016.217	14:15:12
AK.RIDG	111.7	105.3	-38	-60	-9	0.44	0.24	0.76	2017.105	08:19:42
AK.RKAV	213.9	93.7	-84	-92	-78	1.00	0.72	1.28	2013.240	02:54:42
AK.RND	292.3	97.4	50	48	58	0.88	0.76	1.04	2012.175	04:34:53
AK.RND	271.6	102.8	42	31	54	1.16	0.84	1.52	2012.247	18:23:05
AK.RND	256.1	86.7	32	25	41	1.68	1.52	1.84	2012.252	10:51:44
AK.RND	260.9	90.4	35	29	41	2.04	1.80	2.28	2012.282	11:43:31
AK.RND	259.3	92.0	31	27	37	1.84	1.64	2.00	2012.345	16:53:09
AK.RND	267.3	89.4	29	25	33	1.92	1.76	2.12	2012.352	09:16:31
AK.RND	260.4	93.5	30	25	39	1.48	1.32	1.68	2013.244	11:52:30
AK.RND	277.1	102.4	43	37	50	1.04	0.88	1.24	2014.025	05:14:21
AK.RND	109.6	96.6	-54	-68	-23	1.04	0.32	1.84	2014.236	23:21:46
AK.RND	258.9	91.3	29	23	33	2.12	1.88	2.40	2014.340	22:05:11
AK.RND	301.2	89.7	57	50	70	1.28	0.88	1.68	2010.089	16:54:47
AK.RND	292.8	98.4	47	35	66	0.88	0.52	1.40	2010.096	22:15:02
AK.RND	104.9	91.6	-51	-56	-52	0.92	0.88	0.96	2010.144	16:18:29
AK.RND	270.2	85.4	38	33	46	2.00	1.92	2.12	2011.041	14:39:28
AK.RND	270.1	85.5	42	35	50	2.04	1.92	2.16	2011.041	14:41:59
AK.RND	270.9	98.1	43	39	48	1.20	1.08	1.32	2011.069	17:08:37
AK.RND	205.9	100.9	68	60	76	0.52	0.44	0.60	2011.108	13:03:03
AK.RND	219.7	90.1	-22	-39	-5	0.92	0.60	1.48	2011.130	08:55:09
AK.RND	107.4	89.9	-45	-56	-37	0.80	0.60	1.00	2011.236	17:46:12
AK.RND	262.1	93.2	36	33	41	1.76	1.60	1.96	2011.242	06:57:42
AK.RND	292.3	97.5	50	48	58	1.16	0.96	1.36	2011.248	17:55:11
AK.RND	271.6	101.3	50	43	56	1.48	1.28	1.72	2011.286	03:16:30

AK.RND	102.5	101.0	-64	-74	-58	0.84	0.48	1.32	2011.326	18:48:16
AK.RND	111.2	95.4	-49	-60	-39	1.00	0.64	1.56	2012.030	05:11:01
AK.RND	217.3	91.3	-5	-39	21	0.68	0.36	1.24	2012.063	12:19:55
AK.RND	265.5	95.9	37	35	39	1.40	1.32	1.52	2015.058	13:45:05
AK.RND	289.9	100.5	44	37	50	1.40	1.08	1.76	2015.062	10:37:31
AK.RND	285.9	100.8	52	46	56	1.32	1.12	1.52	2015.135	20:26:56
AK.RND	258.9	92.5	31	23	39	1.64	1.32	1.96	2015.325	09:06:12
AK.RND	105.2	92.7	-55	-60	-54	0.80	0.68	0.88	2015.330	05:45:18
AK.RND	260.7	90.0	35	31	39	2.04	1.88	2.20	2015.343	10:21:50
AK.RND	267.2	99.3	39	37	43	1.44	1.32	1.52	2016.043	10:02:25
AK.RND	287.6	101.0	50	46	52	1.16	1.04	1.24	2016.153	22:56:01
AK.RND	263.9	92.1	36	29	41	1.84	1.60	2.04	2016.157	16:25:34
AK.RND	287.6	101.0	48	43	54	1.08	0.92	1.24	2016.153	22:56:01
AK.RND	279.5	100.2	41	37	48	1.24	1.08	1.40	2016.293	00:26:01
AK.RND	264.7	95.5	23	19	27	1.64	1.44	1.80	2016.340	01:13:05
AK.RND	286.0	102.0	46	41	50	1.08	0.92	1.20	2017.225	03:08:11
AK.SAMH	215.3	89.4	81	58	100	0.56	0.32	0.80	2010.362	08:34:18
AK.SAMH	215.6	89.9	-74	-98	-68	0.96	0.44	1.60	2011.210	07:42:23
AK.SAMH	214.4	93.7	-88	-96	-80	1.04	0.76	1.36	2013.240	02:54:42
AK.SAMH	116.8	91.8	-1	-25	9	0.80	0.52	1.20	2014.236	23:21:46
AK.SAMH	214.7	85.3	-75	-84	-72	1.04	0.80	1.32	2014.305	18:57:22
AK.SAMH	215.1	86.6	83	72	90	0.72	0.52	0.88	2016.148	04:08:44
AK.SAMH	271.4	99.2	-55	-68	-46	1.00	0.72	1.32	2016.340	01:13:05
AK.SAW	271.8	101.6	-54	-76	-25	0.60	0.32	0.92	2011.286	03:16:30
AK.SAW	287.3	102.7	-53	-64	-41	1.28	0.80	1.72	2013.187	05:05:07
AK.SAW	287.8	101.8	-52	-62	-46	0.88	0.60	1.16	2016.153	22:56:01
AK.SAW	269.3	102.7	-31	-52	-21	0.80	0.52	1.20	2016.161	04:13:08
AK.SAW	219.9	87.5	68	58	78	0.80	0.56	1.04	2016.202	15:13:16
AK.SAW	279.6	100.7	-36	-58	-21	0.92	0.64	1.28	2016.293	00:26:01
AK.SAW	286.1	102.7	-54	-64	-48	1.16	0.84	1.48	2017.225	03:08:11
AK.SCM	106.3	90.5	82	70	90	0.44	0.28	0.64	2010.144	16:18:29
AK.SCM	271.7	86.2	36	27	43	0.76	0.60	0.88	2011.041	14:39:28
AK.SCM	271.6	86.2	34	27	39	0.88	0.76	1.04	2011.041	14:41:59
AK.SCM	267.8	86.0	30	25	33	1.00	0.88	1.12	2011.164	14:31:23
AK.SCM	108.9	111.9	49	37	66	0.84	0.52	1.12	2012.149	05:07:24
AK.SCM	267.4	87.1	29	25	33	0.88	0.80	0.96	2016.159	19:15:16
AK.SCM	106.7	92.5	83	72	88	0.40	0.28	0.52	2016.353	13:30:11
AK.SCRK	113.8	94.8	-18	-46	1	0.76	0.52	1.08	2014.236	23:21:46
AK.SCRK	211.6	87.7	72	60	88	0.40	0.32	0.48	2014.305	18:57:22
AK.SCRK	112.6	99.2	-37	-48	-27	1.08	0.80	1.32	2010.126	02:42:48
AK.SCRK	109.3	89.7	-39	-50	-33	0.84	0.68	1.00	2010.144	16:18:29
AK.SCRK	111.6	99.2	-44	-54	-41	1.20	0.96	1.40	2012.135	10:00:40
AK.SCRK	113.3	96.5	-33	-56	-1	0.76	0.36	1.28	2012.159	16:03:19
AK.SCRK	210.4	96.6	-80	-90	-76	0.76	0.56	1.00	2013.116	06:53:29
AK.SCRK	210.5	98.7	87	76	96	0.88	0.64	1.16	2013.224	04:16:48
AK.SCRK	212.2	110.7	-86	-92	-82	0.96	0.80	1.16	2013.228	02:31:06
AK.SCRK	211.9	96.1	90	84	92	0.76	0.64	0.88	2013.240	02:54:42
AK.SCRK	212.6	94.6	-85	-98	-78	0.64	0.44	0.88	2014.085	03:29:37
AK.SCRK	213.2	93.2	-79	-88	-76	0.72	0.56	0.96	2014.124	09:15:53
AK.SCRK	213.6	94.5	-86	-106	-78	0.60	0.40	0.88	2014.124	09:25:15

AK.SCRK	111.5	100.0	-50	-62	-43	1.04	0.68	1.36	2015.082	04:51:37
AK.SCRK	211.9	88.6	-84	-98	-78	0.80	0.52	1.08	2015.172	21:28:17
AK.SCRK	210.4	94.4	-82	-92	-78	0.76	0.56	0.96	2015.218	23:59:45
AK.SCRK	209.3	98.6	85	76	90	0.80	0.64	1.00	2015.236	09:41:26
AK.SCRK	109.5	90.8	-36	-46	-33	0.92	0.76	1.04	2015.330	05:45:18
AK.SCRK	212.1	89.0	-82	-92	-78	0.60	0.44	0.76	2016.148	04:08:44
AK.SCRK	208.5	97.9	88	62	102	0.60	0.32	1.00	2016.158	02:35:23
AK.SCRK	109.5	91.7	-42	-52	-37	0.96	0.80	1.08	2016.353	13:30:11
AK.SCRK	107.4	103.0	-53	-62	-52	1.28	1.04	1.56	2017.052	14:09:04
AK.SCRK	212.9	92.6	-87	-94	-86	0.52	0.44	0.60	2017.168	22:26:03
AK.SCRK	210.7	99.2	89	78	96	0.80	0.60	1.04	2017.180	07:03:11
AK.SCRK	213.0	86.3	59	52	70	0.48	0.36	0.64	2017.231	02:00:52
AK.SGA	268.4	97.5	70	35	84	0.88	0.32	1.40	2015.058	13:45:05
AK.SGA	270.9	100.9	45	29	62	0.84	0.60	1.08	2016.364	22:30:18
AK.SII	260.4	92.4	16	9	25	0.72	0.56	0.92	2015.058	13:45:05
AK.SII	260.5	92.4	26	17	35	0.72	0.56	0.88	2016.236	19:39:44
AK.SII	279.9	101.0	50	37	62	1.00	0.76	1.20	2017.225	03:08:11
AK.SKN	206.2	107.3	4	-41	21	1.96	0.64	3.96	2013.228	02:31:06
AK.SKN	202.0	97.2	-22	-50	3	1.20	0.56	1.80	2014.033	09:26:37
AK.SKN	107.2	104.0	-61	-68	-60	1.84	1.40	2.40	2014.093	02:43:17
AK.SKN	201.4	94.7	-19	-33	-9	1.16	0.88	1.44	2014.184	19:50:05
AK.SKN	107.4	97.3	-59	-66	-54	1.52	0.92	2.16	2014.236	23:21:46
AK.SKN	256.9	90.5	17	9	23	1.88	1.60	2.20	2012.345	16:53:09
AK.SKN	102.6	92.5	-35	-43	-31	0.96	0.84	1.08	2010.144	16:18:29
AK.SKN	206.1	88.8	-18	-31	-7	1.64	1.20	2.08	2011.210	07:42:23
AK.SKN	279.8	102.3	28	21	33	2.68	2.20	3.16	2011.234	20:12:21
AK.SKN	105.0	90.7	-49	-60	-43	1.72	1.24	2.40	2011.236	17:46:12
AK.SKN	105.5	114.1	-48	-58	-46	1.28	1.00	1.52	2011.245	13:47:10
AK.SKN	269.0	100.1	31	25	39	1.48	1.16	1.72	2011.286	03:16:30
AK.SKN	109.0	96.0	-51	-60	-48	2.88	1.92	3.72	2012.030	05:11:01
AK.SKN	105.3	113.8	-45	-56	-37	1.04	0.80	1.36	2012.149	05:07:24
AK.SKN	107.0	99.0	-53	-60	-52	2.96	2.36	3.68	2012.159	16:03:19
AK.SKN	202.9	95.3	-9	-19	-3	1.84	1.56	2.16	2015.236	09:41:26
AK.SKN	103.0	94.4	-47	-56	-43	0.84	0.72	1.00	2016.353	13:30:11
AK.SKN	101.4	105.9	-61	-68	-56	1.00	0.76	1.24	2017.052	14:09:04
AK.SLK	257.8	91.3	24	19	25	0.92	0.88	1.00	2013.224	00:53:44
AK.SLK	205.1	94.3	-21	-37	-9	0.32	0.24	0.40	2013.224	04:16:48
AK.SLK	206.4	91.6	-22	-31	-17	0.36	0.32	0.40	2013.240	02:54:42
AK.SLK	259.0	92.4	27	21	35	0.84	0.72	0.96	2013.244	11:52:30
AK.SLK	207.1	90.1	-27	-35	-21	0.40	0.32	0.44	2014.085	03:29:37
AK.SLK	208.1	90.1	-28	-37	-21	0.48	0.36	0.56	2014.124	09:25:15
AK.SLK	202.5	93.6	-34	-48	-13	0.40	0.28	0.52	2014.184	19:50:05
AK.SLK	291.0	99.2	-15	-25	-11	0.68	0.60	0.80	2014.186	09:39:30
AK.SLK	108.7	96.3	-49	-66	-15	0.68	0.32	1.44	2014.236	23:21:46
AK.SLK	257.7	90.1	20	15	25	1.08	0.92	1.20	2014.340	22:05:11
AK.SLK	264.0	95.0	22	19	27	0.88	0.72	1.00	2015.058	13:45:05
AK.SLK	204.9	90.0	-21	-33	-15	0.36	0.32	0.44	2015.218	23:59:45
AK.SLK	104.1	92.6	-36	-43	-31	0.56	0.48	0.60	2015.330	05:45:18
AK.SLK	259.5	88.8	22	17	27	1.04	0.88	1.16	2015.343	10:21:50
AK.SLK	104.4	94.0	-30	-39	-23	0.48	0.40	0.56	2015.328	22:45:38

AK.SLK	104.3	93.5	-40	-54	-29	0.52	0.40	0.64	2015.328	22:50:54
AK.SLK	285.8	101.3	-16	-23	-15	0.56	0.52	0.64	2016.153	22:56:01
AK.SLK	264.1	95.0	28	25	35	0.80	0.68	0.92	2016.236	19:39:44
AK.SLK	104.2	93.5	-30	-46	-17	0.32	0.24	0.40	2016.353	13:30:11
AK.SLK	207.3	88.1	-31	-43	-21	0.52	0.36	0.68	2017.168	22:26:03
AK.SLK	284.1	102.2	-30	-43	-19	0.56	0.44	0.64	2017.225	03:08:11
AK.SPIA	187.2	83.9	-37	-43	-33	0.72	0.64	0.80	2015.218	23:59:45
AK.SSN	206.0	92.4	-36	-43	-33	0.84	0.72	0.96	2013.240	02:54:42
AK.SSN	203.7	94.8	-40	-54	-31	0.92	0.64	1.28	2013.284	21:25:00
AK.SSN	202.6	96.9	-45	-54	-39	1.04	0.76	1.32	2014.033	09:26:37
AK.SSN	103.3	92.0	-51	-64	-37	0.52	0.36	0.68	2010.144	16:18:29
AK.SSN	207.5	88.2	-29	-39	-23	0.64	0.52	0.76	2010.181	04:31:02
AK.SSN	206.8	88.5	-33	-41	-27	0.68	0.52	0.80	2011.210	07:42:23
AK.SSN	105.7	90.2	-40	-60	-15	0.44	0.28	0.68	2011.236	17:46:12
AK.SSN	260.4	92.0	14	9	19	2.20	1.96	2.40	2011.242	06:57:42
AK.SSN	206.7	86.2	-25	-33	-19	0.56	0.48	0.64	2011.258	19:31:04
AK.SSN	215.6	89.2	-22	-33	-17	0.88	0.72	1.08	2012.063	12:19:55
AK.SSN	203.5	95.0	-36	-46	-31	0.72	0.60	0.88	2015.236	09:41:26
AK.SSN	217.7	86.5	-16	-23	-15	0.80	0.72	0.88	2016.202	15:13:16
AK.SSN	207.3	88.1	-23	-35	-13	1.00	0.76	1.28	2017.002	13:14:03
AK.SSN	206.9	88.8	-29	-37	-25	0.76	0.64	0.88	2017.168	22:26:03
AK.SSN	206.9	82.5	-19	-29	-15	0.48	0.44	0.56	2017.231	02:00:52
AK.SSN	204.1	101.9	-30	-35	-25	0.64	0.56	0.68	2016.245	16:37:58
AK.SSP	9.9	85.0	62	39	78	0.48	0.36	0.64	2013.167	21:39:06
AK.SWD	276.5	105.3	-59	-70	-48	0.92	0.60	1.28	2013.164	16:47:23
AK.SWD	291.6	99.7	4	-3	9	1.00	0.72	1.28	2014.186	09:39:30
AK.SWD	104.5	91.1	42	39	50	1.08	0.92	1.24	2010.144	16:18:29
AK.SWD	269.9	97.9	44	31	56	0.64	0.48	0.80	2011.069	17:08:37
AK.SWD	286.4	101.7	-4	-17	1	0.56	0.40	0.76	2016.153	22:56:01
AK.SWD	286.4	101.7	-4	-11	-1	0.60	0.48	0.76	2016.153	22:56:01
AK.SWD	284.7	102.6	-47	-60	-35	0.60	0.44	0.84	2017.225	03:08:11
AK.TABL	215.9	89.8	-80	-90	-76	1.12	0.88	1.40	2010.181	04:31:02
AK.TABL	272.9	90.2	55	43	68	1.08	0.72	1.40	2010.215	12:08:26
AK.TABL	215.0	89.5	-83	-92	-76	1.20	0.88	1.56	2010.362	08:34:18
AK.TABL	215.7	92.7	-80	-88	-80	1.12	0.96	1.24	2011.052	10:57:52
AK.TABL	211.8	100.0	-86	-92	-84	1.44	1.24	1.68	2011.108	13:03:03
AK.TABL	215.2	90.0	-83	-92	-80	0.84	0.68	1.00	2011.210	07:42:23
AK.TABL	277.8	105.1	56	35	74	0.72	0.48	0.96	2011.286	03:16:30
AK.TABL	272.8	89.1	47	31	64	0.56	0.44	0.72	2012.239	15:05:37
AK.TABL	212.6	96.4	-83	-92	-80	1.40	1.12	1.64	2013.224	04:16:48
AK.TABL	214.1	93.8	-86	-90	-84	1.24	1.16	1.32	2013.240	02:54:42
AK.TABL	214.9	85.7	89	86	90	0.80	0.72	0.88	2014.202	14:54:41
AK.TABL	214.3	85.4	-84	-92	-82	0.76	0.64	0.88	2014.305	18:57:22
AK.TABL	112.0	88.3	0	-15	11	0.60	0.36	0.92	2015.330	05:45:18
AK.TABL	215.8	84.1	90	88	90	0.80	0.72	0.88	2017.231	02:00:52
AK.TABL	214.7	85.7	89	82	92	0.72	0.60	0.80	2016.268	21:28:42
AK.TGL	271.4	89.4	43	27	58	0.64	0.44	0.88	2010.215	12:08:26
AK.TGL	210.5	99.9	-85	-134	-68	0.40	0.12	0.92	2011.108	13:03:03
AK.TGL	214.1	90.8	66	50	94	0.40	0.24	0.68	2014.124	09:15:53
AK.TGL	276.5	86.6	52	43	64	0.52	0.40	0.68	2014.336	05:11:32

AK.TNA	268.8	92.4	29	15	56	0.68	0.40	1.04	2015.135	20:26:56
AK.TNA	250.3	91.7	6	-1	15	0.96	0.72	1.16	2016.043	10:02:25
AK.TNA	248.5	88.4	22	15	29	1.36	1.20	1.56	2016.236	19:39:44
AK.TNA	87.8	101.9	-34	-50	-25	0.64	0.44	0.88	2016.353	13:30:11
AK.TRF	276.7	104.5	37	33	41	1.80	1.60	2.00	2013.164	16:47:23
AK.TRF	205.2	100.2	55	41	72	0.80	0.52	1.12	2013.166	11:20:36
AK.TRF	275.8	101.8	36	29	39	1.80	1.60	2.00	2014.025	05:14:21
AK.TRF	203.1	98.8	59	46	78	0.88	0.60	1.20	2014.033	09:26:37
AK.TRF	202.5	96.3	47	35	68	0.88	0.48	1.36	2014.184	19:50:05
AK.TRF	265.2	87.8	27	13	41	2.32	1.72	2.80	2010.095	10:05:46
AK.TRF	269.6	97.5	32	23	37	2.40	2.00	2.76	2011.069	17:08:37
AK.TRF	204.7	100.6	57	48	70	0.84	0.64	1.08	2011.108	13:03:03
AK.TRF	260.9	92.6	31	25	39	2.08	1.72	2.44	2011.242	06:57:42
AK.TRF	291.0	96.8	39	33	46	1.72	1.40	2.04	2012.175	04:34:53
AK.TRF	258.1	91.4	32	23	41	2.16	1.76	2.52	2012.345	16:53:09
AK.TRF	264.2	95.3	28	23	33	1.76	1.52	2.00	2015.058	13:45:05
AK.TRF	257.7	91.9	16	11	21	2.08	1.84	2.36	2015.325	09:06:12
AK.TRF	259.4	89.3	21	13	29	2.32	2.00	2.64	2015.343	10:21:50
AK.TRF	262.7	91.5	25	19	33	2.24	1.92	2.52	2016.157	16:25:34
AK.TRF	267.9	101.8	28	21	33	2.24	1.96	2.52	2016.161	04:13:08
AK.TRF	278.2	99.5	44	39	54	1.44	1.12	1.72	2016.293	00:26:01
AK.TRF	263.4	94.9	39	33	46	2.00	1.76	2.24	2016.340	01:13:05
AK.TRF	259.4	93.1	29	21	35	2.08	1.72	2.44	2016.356	00:17:15
AK.UNV	91.3	100.5	47	19	72	0.48	0.32	0.76	2015.330	05:45:18
AK.UNV	251.5	88.6	12	5	17	3.08	2.72	3.44	2016.043	10:02:25
AK.VMT	272.7	99.4	-69	-82	-41	0.44	0.20	0.72	2011.069	17:08:37
AK.VMT	109.6	88.1	-2	-17	3	1.08	0.68	1.48	2011.236	17:46:12
AK.VMT	111.9	94.7	2	-54	15	0.60	0.20	1.60	2014.236	23:21:46
AK.VRDI	210.8	96.5	-79	-102	-72	0.56	0.28	1.04	2013.224	04:16:48
AK.VRDI	212.2	93.9	78	66	90	0.36	0.28	0.40	2013.240	02:54:42
AK.VRDI	213.0	92.4	85	50	108	0.24	0.12	0.48	2014.085	03:29:37
AK.VRDI	214.0	92.4	66	41	106	0.28	0.12	0.60	2014.124	09:25:15
AK.VRDI	212.8	85.7	73	50	98	0.28	0.20	0.44	2014.202	14:54:41
AK.VRDI	213.9	89.8	90	62	104	0.28	0.20	0.44	2010.181	04:31:02
AK.VRDI	276.1	85.6	40	25	66	0.60	0.40	0.96	2010.204	23:15:10
AK.VRDI	275.3	100.7	29	13	72	0.32	0.12	0.68	2011.069	17:08:37
AK.VRDI	210.1	100.1	60	43	96	0.32	0.16	0.60	2011.108	13:03:03
AK.VRDI	114.0	95.1	-10	-46	13	0.88	0.32	1.72	2012.159	16:03:19
AK.VRDI	270.0	98.3	58	39	70	0.60	0.40	0.84	2015.058	13:45:05
AK.VRDI	212.7	86.8	65	52	86	0.40	0.24	0.56	2016.148	04:08:44
AK.VRDI	268.6	94.5	39	17	64	0.24	0.16	0.36	2016.157	16:25:34
AK.VRDI	270.8	89.0	27	13	52	0.72	0.40	1.20	2016.159	19:15:16
AK.VRDI	269.2	97.9	35	15	62	0.48	0.32	0.80	2016.340	01:13:05
AK.WAT1	259.6	92.0	14	3	25	0.84	0.56	1.16	2012.345	16:53:09
AK.WAT1	265.8	96.0	64	50	72	0.38	0.24	0.52	2016.236	19:39:44
AK.WAT1	105.5	93.3	42	25	60	0.86	0.52	1.22	2016.353	13:30:11
AK.WAT2	259.6	92.0	18	9	27	0.88	0.68	1.12	2012.345	16:53:09
AK.WAT2	259.2	91.4	15	11	23	1.08	0.84	1.28	2014.340	22:05:11
AK.WAT4	256.9	86.9	31	29	35	0.96	0.88	1.00	2012.252	10:51:44
AK.WAT4	260.1	92.3	26	23	31	0.76	0.68	0.84	2012.345	16:53:09

AK.WAT4	266.5	87.6	29	19	41	0.92	0.68	1.20	2012.346	06:18:27
AK.WAT4	268.1	89.8	26	23	31	0.92	0.84	1.00	2012.352	09:16:31
AK.WAT4	207.1	96.8	71	39	102	0.36	0.20	0.92	2013.224	04:16:48
AK.WAT4	208.4	94.2	82	64	96	0.48	0.28	0.64	2013.240	02:54:42
AK.WAT4	268.5	97.4	31	23	37	0.72	0.60	0.88	2013.264	01:39:15
AK.WAT4	209.1	92.7	9	-5	21	0.96	0.64	1.24	2014.085	03:29:37
AK.WAT4	218.2	90.5	4	-9	19	0.52	0.32	0.68	2014.121	06:36:35
AK.WAT4	266.6	85.7	37	29	48	1.28	1.04	1.48	2014.325	10:10:20
AK.WAT4	259.7	91.6	22	17	27	0.76	0.64	0.84	2014.340	22:05:11
AK.WAT4	266.8	86.5	25	19	33	0.92	0.72	1.08	2015.076	22:12:29
AK.WAT5	268.3	97.3	32	19	50	0.72	0.48	1.00	2013.264	01:39:15
AK.WAT5	218.0	90.6	0	-11	3	0.52	0.44	0.60	2014.121	06:36:35
AK.WAT5	266.3	85.6	32	25	39	1.08	0.92	1.28	2014.325	10:10:20
AK.WAT5	259.5	91.5	19	-1	60	0.44	0.16	0.88	2014.340	22:05:11
AK.WAT5	266.5	86.4	41	33	50	1.16	0.98	1.32	2015.076	22:12:29
AK.WAT6	206.1	96.6	88	66	100	0.80	0.44	1.32	2013.273	05:55:56
AK.WAT6	209.3	92.5	-37	-50	-27	0.64	0.40	0.88	2014.085	03:29:37
AK.WAT6	110.6	95.9	-27	-60	3	0.40	0.28	0.88	2014.236	23:21:46
AK.WAT6	267.0	86.6	23	13	37	0.96	0.64	1.36	2015.076	22:12:29
AK.WAT6	286.8	101.5	-49	-60	-35	0.68	0.44	0.96	2015.135	20:26:56
AK.WAT6	206.1	96.6	46	35	62	1.12	0.52	1.72	2015.236	09:41:26
AK.WAT6	223.3	85.0	61	58	64	1.80	1.56	2.16	2015.293	21:52:02
AK.WAT6	264.9	92.5	19	15	23	0.64	0.56	0.72	2016.157	16:25:34
AK.WAT6	267.0	87.0	25	15	39	0.92	0.60	1.32	2016.159	19:15:16
AK.WAT6	220.4	88.3	-14	-31	3	0.80	0.48	1.08	2016.202	15:13:16
AK.WAT6	208.6	85.9	55	50	62	0.56	0.48	0.64	2016.268	21:28:42
AK.WAT7	266.0	86.1	20	15	27	1.28	1.04	1.52	2015.076	22:12:29
AK.WAT7	266.2	86.0	26	17	41	0.76	0.56	1.00	2015.259	07:40:60
AK.WAT7	105.2	92.6	-31	-56	-9	0.52	0.28	0.76	2015.330	05:45:18
AK.WAT7	260.7	89.9	15	9	27	0.76	0.52	1.00	2015.343	10:21:50
AK.WAT7	163.6	120.3	-60	-74	-54	2.32	1.84	2.80	2015.358	19:44:03
AK.WAT7	266.0	86.5	28	19	37	0.76	0.60	0.92	2016.159	19:15:16
AK.WAT7	106.7	106.6	-33	-50	-23	0.48	0.36	0.64	2016.217	14:15:12
AK.WAX	213.8	89.6	90	80	94	0.52	0.44	0.60	2011.210	07:42:23
AK.WAX	211.2	95.9	-81	-92	-74	1.00	0.60	1.52	2013.224	04:16:48
AK.WAX	212.7	93.4	-75	-84	-74	0.84	0.64	1.04	2013.240	02:54:42
AK.WAX	213.2	85.3	-85	-102	-76	0.56	0.32	0.84	2016.268	21:28:42
AK.WRH	244.2	85.5	24	17	31	2.00	1.72	2.32	2010.107	23:15:22
AK.WRH	300.3	91.6	66	50	88	0.64	0.40	1.00	2010.151	19:51:56
AK.WRH	266.7	87.0	-57	-66	-52	1.76	1.48	2.00	2010.215	12:08:26
AK.WRH	271.7	98.4	42	25	58	1.88	1.52	2.24	2011.069	17:08:37
AK.WRH	206.6	102.0	65	58	76	1.20	0.88	1.48	2011.108	13:03:03
AK.WRH	107.2	113.0	57	43	72	0.60	0.40	0.80	2012.149	05:07:24
AK.WRH	293.1	97.3	45	37	58	0.68	0.44	1.00	2012.175	04:34:53
AK.WRH	260.1	92.5	40	33	50	2.20	1.88	2.48	2012.345	16:53:09
AK.WRH	206.9	96.2	67	58	78	0.84	0.64	1.00	2013.116	06:53:29
AK.WRH	207.1	98.3	57	41	84	0.68	0.36	1.04	2013.224	04:16:48
AK.WRH	208.4	95.6	64	58	76	0.84	0.64	1.00	2013.240	02:54:42
AK.WRH	209.0	94.1	59	50	70	0.84	0.60	1.08	2014.085	03:29:37
AK.WRH	210.0	94.0	74	66	86	0.80	0.64	1.00	2014.124	09:25:15

AK.WRH	266.3	96.3	40	33	50	1.64	1.40	1.88	2015.058	13:45:05
AK.WRH	206.8	94.0	77	66	88	0.76	0.60	0.96	2015.218	23:59:45
AK.WRH	261.4	90.5	29	19	39	1.88	1.48	2.24	2015.343	10:21:50
AK.WRH	268.1	99.7	28	21	37	1.80	1.36	2.40	2016.043	10:02:25
AK.WRH	288.5	101.0	51	43	62	1.04	0.80	1.28	2016.153	22:56:01
AK.WRH	288.5	101.0	49	39	62	1.16	0.80	1.52	2016.153	22:56:01
AK.WRH	106.9	106.7	63	39	88	0.48	0.28	0.72	2016.217	14:15:12
AK.WRH	286.9	102.1	53	48	62	1.16	0.92	1.36	2017.225	03:08:11
AK.YAH	271.3	99.2	41	29	56	0.56	0.44	0.68	2015.058	13:45:05
AK.YAH	214.0	86.1	58	52	72	0.48	0.32	0.64	2015.172	21:28:17
AK.YAH	212.2	91.8	80	72	88	0.60	0.48	0.72	2015.218	23:59:45
AK.YAH	270.0	95.3	32	21	52	0.44	0.28	0.60	2016.157	16:25:34
AK.YAH	215.2	83.9	61	56	68	0.40	0.32	0.48	2017.231	02:00:52
AT.AKUT	92.3	101.4	64	60	70	1.04	0.88	1.16	2015.328	22:45:38
AT.CHGN	283.1	95.1	61	58	66	1.60	1.44	1.72	2011.248	17:55:11
AT.CHGN	277.3	98.8	57	46	70	1.60	1.32	1.92	2012.258	04:51:47
AT.CHGN	256.9	90.1	45	41	50	1.08	0.96	1.20	2016.236	19:39:44
AT.CHGN	259.1	93.7	43	35	50	1.08	0.88	1.32	2016.364	22:30:18
AT.MENT	270.6	88.4	59	39	74	1.16	0.76	1.56	2015.076	22:12:29
AT.MENT	111.9	99.6	54	43	62	2.12	1.60	2.64	2015.082	04:51:37
AT.MID	210.7	87.8	-77	-86	-76	0.84	0.68	1.04	2011.210	07:42:23
AT.OHAK	288.0	98.5	46	23	90	0.68	0.24	1.72	2010.096	22:15:02
AT.OHAK	105.9	101.3	42	29	66	0.68	0.36	1.08	2010.126	02:42:48
AT.OHAK	0.1	87.1	66	56	78	0.64	0.40	0.92	2011.091	13:29:11
AT.OHAK	106.1	105.5	30	23	50	0.88	0.40	1.60	2011.171	16:36:01
AT.OHAK	287.5	97.5	44	31	66	0.92	0.52	1.44	2011.248	17:55:11
AT.OHAK	287.6	97.5	60	46	74	0.64	0.48	0.84	2012.175	04:34:53
AT.OHAK	1.4	88.4	63	52	72	0.60	0.44	0.76	2013.166	16:11:03
AT.OHAK	1.3	88.4	41	25	60	0.68	0.48	0.92	2013.167	21:39:06
AT.OHAK	282.5	100.5	58	48	72	0.84	0.64	1.00	2016.153	22:56:01
AT.PMR	270.4	98.0	-66	-72	-64	1.28	1.12	1.48	2011.069	17:08:37
AT.PMR	291.8	98.0	-46	-56	-46	1.80	1.56	2.08	2012.175	04:34:53
AT.PMR	207.2	85.8	-41	-52	-37	2.56	2.00	3.08	2015.028	02:43:20
AT.PMR	116.4	112.0	86	68	98	0.68	0.40	1.00	2015.264	17:40:01
AT.PMR	266.7	99.1	-73	-82	-70	1.24	1.00	1.44	2016.043	10:02:25
AT.PMR	265.1	95.6	-69	-76	-66	1.16	1.00	1.32	2016.236	19:39:44
AT.SIT	282.9	86.2	-33	-43	-25	1.12	0.88	1.32	2015.184	06:43:22
AT.SIT	275.1	98.8	-57	-66	-52	1.16	0.88	1.44	2016.157	16:25:34
AT.SIT	277.7	93.4	-44	-58	-37	0.84	0.64	1.00	2016.159	19:15:16
AT.SIT	276.3	102.7	-46	-54	-39	0.92	0.76	1.08	2016.236	19:39:44
AT.SIT	282.6	92.8	-51	-68	-29	0.88	0.44	1.52	2017.010	06:13:47
AT.SIT	115.8	96.5	-22	-33	-19	1.92	1.68	2.16	2017.052	14:09:04
AT.SKAG	118.6	104.5	-33	-43	-27	1.92	1.44	2.36	2011.001	09:56:58
AT.SKAG	120.3	97.7	-14	-23	-7	1.64	1.40	1.92	2011.171	16:36:01
AT.SKAG	273.6	99.5	-54	-74	-39	1.24	0.68	2.04	2011.242	06:57:42
AT.SKAG	119.4	105.9	-15	-31	-3	1.48	1.12	1.84	2011.245	13:47:10
AT.SKAG	304.1	105.0	-36	-43	-31	1.16	0.92	1.52	2011.248	17:55:11
AT.SKAG	121.1	90.8	-15	-21	-11	1.68	1.48	1.92	2012.159	16:03:19
AT.SKAG	304.1	105.0	-34	-39	-29	1.40	1.20	1.56	2012.175	04:34:53
AT.SKAG	277.9	92.1	-66	-72	-66	1.28	1.04	1.48	2012.239	15:05:37

AT.SKAG	125.3	102.3	-19	-31	-9	1.48	1.04	2.04	2013.030	20:15:43
AT.SKAG	264.9	91.1	-69	-80	-64	1.20	0.92	1.60	2013.096	04:42:36
AT.SKAG	219.8	93.3	26	17	31	1.32	0.88	1.72	2014.085	03:29:37
AT.SKAG	121.5	95.5	-10	-29	3	1.40	1.12	1.72	2014.093	01:58:31
AT.SKAG	121.5	89.1	-14	-25	-11	1.56	1.36	1.80	2014.236	23:21:46
AT.SMY	185.4	90.3	-39	-48	-37	0.80	0.70	0.90	2016.245	16:37:58
AT.SVW2	264.6	94.9	17	9	27	0.80	0.56	1.12	2011.069	17:08:37
AT.SVW3	200.2	97.5	-30	-54	-5	0.76	0.48	1.32	2011.108	13:03:03
AT.SVW4	202.4	87.2	-26	-35	-19	0.84	0.76	0.96	2011.210	07:42:23
AT.SVW5	265.3	98.1	25	15	37	0.96	0.68	1.24	2011.286	03:16:30
AT.SVW6	200.6	93.8	-37	-52	-21	0.88	0.60	1.24	2013.224	04:16:48
AT.SVW7	201.8	91.1	-26	-37	-19	0.60	0.48	0.72	2013.240	02:54:42
AT.SVW8	259.4	92.5	25	3	56	0.44	0.28	0.84	2015.058	13:45:05
AT.TTA	259.1	92.6	21	15	29	1.72	1.36	2.08	2015.058	13:45:05
AV.AKLV	92.0	101.0	68	50	78	0.68	0.44	1.04	2015.328	22:50:54
AV.AKMO	106.8	117.7	-25	-41	-15	1.00	0.72	1.24	2015.264	17:40:01
AV.AKMO	91.9	101.0	42	23	60	0.44	0.28	0.64	2015.328	22:50:54
AV.AKRB	92.1	101.6	68	62	78	0.84	0.60	1.08	2015.328	22:45:38
AV.AKSA	92.2	100.9	64	48	78	0.72	0.44	1.08	2015.328	22:50:54
AV.AU22	261.2	93.3	19	13	23	2.88	2.76	3.00	2015.058	13:45:05
AV.AU23	204.6	86.4	-5	-11	-1	1.00	0.88	1.16	2017.168	22:26:03
AV.AUL	215.4	85.9	-5	-35	15	0.76	0.48	1.32	2011.013	16:16:42
AV.AUL	327.8	86.6	28	23	31	1.84	1.64	2.00	2011.018	20:23:24
AV.AUL	200.3	94.5	-58	-66	-50	1.76	0.92	2.52	2014.033	09:26:37
AV.AUL	213.4	86.2	-7	-33	13	0.52	0.24	0.76	2014.121	06:36:35
AV.AUWS	282.7	100.0	35	29	41	1.60	1.28	1.88	2016.153	22:56:01
AV.ILBB	303.0	89.7	83	78	88	0.80	0.65	0.95	2010.089	16:54:47
AV.ILBB	294.8	98.6	81	78	88	0.95	0.85	1.05	2010.096	22:15:02
AV.ILBB	245.3	86.1	39	29	50	1.00	0.70	1.35	2010.107	23:15:22
AV.ILBB	296.3	97.7	82	82	88	0.80	0.75	0.90	2010.129	05:59:42
AV.ILBB	301.5	91.9	83	82	88	0.85	0.80	0.90	2010.151	19:51:56
AV.ILBB	209.6	89.0	66	41	96	0.40	0.20	0.70	2010.228	19:35:49
AV.ILBB	211.3	113.0	89	76	96	0.55	0.40	0.75	2010.246	16:35:48
AV.ILBB	271.8	86.3	52	46	58	1.05	0.90	1.25	2011.041	14:41:59
AV.ILBB	206.7	88.5	89	74	94	0.45	0.30	0.60	2011.043	17:57:57
AV.ILBB	210.9	94.8	-81	-90	-82	0.80	0.65	0.90	2011.052	10:57:52
AV.ILBB	207.6	102.5	86	82	88	0.75	0.70	0.85	2011.108	13:03:03
AV.ILBB	205.5	97.1	88	80	90	0.70	0.55	0.80	2011.187	19:03:18
AV.ILBB	210.2	92.2	-86	-96	-80	0.60	0.45	0.75	2011.210	07:42:23
AV.ILBB	108.3	112.9	-86	-92	-82	0.50	0.35	0.60	2011.245	13:47:10
AV.ILBB	294.3	97.7	82	78	88	0.85	0.80	0.95	2011.248	17:55:11
AV.ILBB	210.1	90.0	-78	-86	-76	0.75	0.60	0.85	2011.258	19:31:04
AV.ILBB	294.3	97.7	82	82	88	0.90	0.85	0.95	2012.175	04:34:53
AV.ILBB	224.0	86.6	-64	-78	-60	0.55	0.35	0.75	2012.188	02:28:22
AV.ILBB	267.6	86.4	52	48	54	1.40	1.30	1.55	2012.239	15:05:37
AV.ILBB	207.9	96.7	-86	-92	-88	0.80	0.75	0.90	2013.116	06:53:29
AV.ILBB	210.0	110.7	88	84	90	0.55	0.45	0.60	2013.202	05:09:32
AV.ILBB	208.1	98.8	-88	-92	-88	0.90	0.85	0.95	2013.224	04:16:48
AV.ILBB	210.1	110.8	88	84	92	0.65	0.55	0.75	2013.228	02:31:06
AV.ILBB	211.1	94.5	-79	-86	-80	0.85	0.75	0.95	2014.124	09:25:15

AV.ILBB	205.5	98.1	85	80	88	0.70	0.60	0.80	2014.184	19:50:05
AV.ILBB	207.0	105.7	87	82	90	0.65	0.55	0.75	2014.320	22:33:23
AV.ILSW	283.1	100.0	43	33	58	0.96	0.68	1.28	2016.153	22:56:01
AV.ISLZ	93.7	99.7	64	27	80	0.44	0.24	0.72	2015.328	22:50:54
AV.IVE	261.6	93.6	32	25	35	2.00	1.80	2.30	2015.058	13:45:05
AV.KABU	264.7	94.8	57	46	68	1.44	1.12	1.84	2011.069	17:08:37
AV.KABU	101.9	91.7	56	27	86	0.84	0.40	1.36	2011.236	17:46:12
AV.KABU	104.1	115.0	70	54	86	0.72	0.44	1.00	2011.245	13:47:10
AV.KABU	103.9	114.7	80	72	86	0.76	0.60	0.96	2012.149	05:07:24
AV.KABU	253.7	87.7	46	39	52	0.92	0.76	1.08	2012.345	16:53:09
AV.KABU	203.2	85.6	61	54	70	1.36	1.16	1.56	2014.124	09:15:53
AV.KABU	198.2	90.6	66	37	90	0.68	0.36	1.16	2014.184	19:50:05
AV.KABU	104.7	98.1	73	33	92	1.12	0.44	2.32	2014.236	23:21:46
AV.KAKN	286.6	97.2	45	39	54	1.84	1.48	2.16	2010.096	22:15:02
AV.KAKN	288.2	96.6	46	39	56	1.60	1.28	2.00	2010.129	05:59:42
AV.KAKN	280.9	100.7	43	29	66	1.40	0.88	2.08	2010.298	14:42:23
AV.KAKN	264.9	94.9	29	19	39	1.80	1.36	2.36	2011.069	17:08:37
AV.KAKN	286.1	96.3	48	41	58	2.12	1.64	2.64	2011.248	17:55:11
AV.KAKN	280.5	100.3	41	31	54	2.08	1.48	2.68	2012.258	04:51:47
AV.KAKN	259.8	92.3	36	27	43	1.88	1.52	2.20	2016.236	19:39:44
AV.MGOD	250.1	84.7	8	1	21	0.52	0.36	0.64	2016.236	19:39:44
AV.MNAT	91.1	100.6	37	15	68	0.52	0.28	0.88	2015.330	05:45:18
AV.MNAT	91.6	101.9	42	13	76	0.36	0.16	0.68	2015.328	22:45:38
AV.MNAT	91.4	101.4	51	29	68	0.44	0.28	0.60	2015.328	22:50:54
AV.MNAT	250.2	84.9	12	7	21	0.36	0.28	0.40	2016.236	19:39:44
AV.MSW	91.0	100.6	71	64	78	0.84	0.64	1.04	2015.330	05:45:18
AV.MSW	91.3	101.5	41	27	64	0.44	0.32	0.56	2015.328	22:50:54
AV.NCT	255.7	89.5	32	23	41	2.20	1.96	2.48	2012.345	16:53:09
AV.NCT	110.8	116.2	51	37	70	0.80	0.44	1.20	2015.033	10:49:49
AV.NCT	261.7	93.7	26	21	29	2.08	1.80	2.36	2015.058	13:45:05
AV.NCT	202.6	89.5	71	52	88	0.44	0.32	0.64	2015.218	23:59:45
AV.NCT	113.8	113.3	58	48	66	0.76	0.60	0.96	2015.264	17:40:01
AV.NCT	101.8	93.9	40	21	78	0.44	0.20	0.92	2015.330	05:45:18
AV.NCT	283.4	100.0	45	39	50	1.48	1.28	1.72	2016.153	22:56:01
AV.NCT	100.6	106.2	69	50	84	0.68	0.44	1.04	2017.052	14:09:04
AV.NCT	281.7	100.9	44	35	52	1.20	0.92	1.48	2017.225	03:08:11
AV.OKCE	90.0	101.5	64	60	74	0.64	0.48	0.80	2015.330	05:45:18
AV.OKCE	90.5	102.8	65	52	78	0.80	0.44	1.16	2015.328	22:45:38
AV.OKCE	90.3	102.3	70	64	78	0.76	0.52	1.00	2015.328	22:50:54
AV.OKCE	249.0	83.9	1	-3	5	1.28	1.08	1.48	2016.236	19:39:44
AV.OKNC	90.0	101.4	48	25	70	0.64	0.32	0.92	2015.330	05:45:18
AV.PS4A	273.2	96.8	47	35	58	1.04	0.80	1.28	2017.225	03:08:11
AV.RDDF	204.8	86.8	57	41	84	0.60	0.36	0.96	2010.362	08:34:18
AV.RDDF	205.7	89.9	64	50	80	0.52	0.40	0.68	2011.052	10:57:52
AV.RDDF	267.1	96.3	37	31	46	2.00	1.68	2.32	2011.069	17:08:37
AV.RDDF	205.1	87.3	83	66	92	0.72	0.48	1.00	2011.210	07:42:23
AV.RDDF	255.9	89.6	36	29	41	2.24	2.00	2.56	2012.345	16:53:09
AV.RDDF	273.1	100.9	39	29	48	1.88	1.52	2.32	2014.025	05:14:21
AV.RDDF	201.0	95.7	71	52	88	0.88	0.56	1.20	2014.033	09:26:37
AV.RDDF	261.9	93.8	28	23	31	2.32	2.04	2.60	2015.058	13:45:05

AV.RDDF	202.8	89.5	69	58	82	0.76	0.56	0.96	2015.218	23:59:45
AV.RDDF	201.8	93.9	74	52	88	0.60	0.36	0.88	2015.236	09:41:26
AV.RDDF	257.4	87.7	23	15	33	2.12	1.76	2.52	2015.343	10:21:50
AV.RDDF	283.6	100.1	46	41	50	1.72	1.48	1.92	2016.153	22:56:01
AV.RDDF	202.5	100.7	73	64	84	0.68	0.52	0.88	2016.245	16:37:58
AV.RDJH	105.6	106.2	46	33	66	1.08	0.68	1.68	2011.171	16:36:01
AV.RDJH	205.0	87.3	81	72	90	0.76	0.60	1.00	2011.210	07:42:23
AV.RDJH	106.1	99.2	70	48	88	0.80	0.48	1.24	2012.159	16:03:19
AV.RDJH	288.4	96.7	50	48	56	1.12	1.04	1.24	2012.175	04:34:53
AV.RDJH	289.9	97.8	48	39	56	0.96	0.80	1.16	2012.207	00:27:45
AV.RDJH	273.7	103.6	36	29	39	1.52	1.32	1.76	2013.164	16:47:23
AV.RDJH	202.9	93.8	69	60	80	0.64	0.52	0.76	2013.224	04:16:48
AV.RDJH	204.2	91.2	74	66	86	0.56	0.44	0.68	2013.240	02:54:42
AV.RDJH	200.9	95.7	79	62	90	0.96	0.64	1.44	2014.033	09:26:37
AV.RDJH	200.3	93.2	68	60	80	0.72	0.60	0.88	2014.184	19:50:05
AV.RDJH	202.7	89.5	73	58	86	0.60	0.44	0.76	2015.218	23:59:45
AV.RDJH	201.7	93.8	64	52	80	1.04	0.68	1.36	2015.236	09:41:26
AV.RDJH	101.9	93.9	28	21	37	0.80	0.52	1.08	2015.330	05:45:18
AV.RDJH	283.5	100.0	44	39	46	1.32	1.20	1.52	2016.153	22:56:01
AV.RDJH	205.0	81.3	83	78	88	0.72	0.60	0.88	2017.231	02:00:52
AV.RDJH	202.4	100.7	88	84	90	0.72	0.60	0.84	2016.245	16:37:58
AV.RDSO	255.9	89.6	36	25	43	1.88	1.52	2.24	2012.345	16:53:09
AV.RDSO	203.0	93.7	71	52	88	0.40	0.28	0.52	2013.224	04:16:48
AV.RDSO	204.2	91.1	70	54	88	0.40	0.24	0.52	2013.240	02:54:42
AV.RDSO	105.1	108.1	61	41	80	1.12	0.64	1.64	2015.042	18:57:19
AV.RDSO	202.7	89.4	65	52	82	0.52	0.40	0.68	2015.218	23:59:45
AV.RDSO	261.1	93.4	31	23	39	1.64	1.36	1.92	2016.340	01:13:05
AV.RDSO	281.9	101.0	38	33	43	1.92	1.60	2.20	2017.225	03:08:11
AV.RDWB	105.6	106.2	42	29	62	0.96	0.60	1.56	2011.171	16:36:01
AV.RDWB	204.9	87.2	-85	-128	-76	0.56	0.24	1.12	2011.210	07:42:23
AV.RDWB	288.3	96.7	46	41	52	1.40	1.20	1.56	2012.175	04:34:53
AV.RDWB	255.8	89.5	32	21	41	1.96	1.56	2.44	2012.345	16:53:09
AV.RDWB	202.9	93.7	77	43	98	0.36	0.20	0.76	2013.224	04:16:48
AV.RDWB	200.3	93.1	54	33	92	0.48	0.24	0.96	2014.184	19:50:05
AV.RDWB	283.5	100.0	37	33	43	1.76	1.48	2.00	2016.153	22:56:01
AV.RDWB	283.5	100.0	35	29	41	1.72	1.36	2.16	2016.153	22:56:01
AV.RED	267.6	99.4	32	21	41	2.16	1.76	2.56	2011.286	03:16:30
AV.RED	255.8	89.5	30	19	41	1.40	1.08	1.88	2012.345	16:53:09
AV.RED	204.9	89.5	85	78	90	0.72	0.56	0.92	2014.085	03:29:37
AV.RED	261.8	93.7	26	21	31	2.36	2.04	2.64	2015.058	13:45:05
AV.RED	202.7	89.4	89	80	94	0.72	0.48	1.00	2015.218	23:59:45
AV.RED	281.8	101.0	36	29	39	1.76	1.48	2.04	2017.225	03:08:11
AV.SPBG	99.9	102.1	-12	-25	-5	2.24	1.40	3.08	2011.326	18:48:16
AV.SPBG	204.6	91.9	79	68	88	1.40	0.96	1.88	2013.240	02:54:42
AV.SPCG	102.2	92.5	-46	-56	-39	0.72	0.56	0.88	2010.144	16:18:29
AV.SPCG	104.6	90.8	-39	-52	-29	0.84	0.64	1.00	2011.236	17:46:12
AV.SPCG	256.5	90.1	24	17	33	2.52	2.16	2.84	2012.345	16:53:09
AV.SPCG	204.9	92.0	83	76	90	0.72	0.56	0.88	2013.240	02:54:42
AV.SPCG	102.5	93.7	-53	-62	-50	0.92	0.72	1.08	2015.330	05:45:18
AV.SPCN	205.5	88.0	76	66	86	0.68	0.52	0.88	2011.210	07:42:23

AV.SPCN	205.4	85.7	59	48	74	0.72	0.48	0.96	2011.258	19:31:04
AV.SPCP	206.2	90.6	74	58	90	0.40	0.28	0.52	2011.052	10:57:52
AV.SPCP	203.0	98.3	-11	-21	-5	1.88	1.80	1.96	2011.108	13:03:03
AV.SPCP	205.5	88.0	66	60	74	0.64	0.56	0.72	2011.210	07:42:23
AV.SPCP	203.2	90.3	71	60	82	0.44	0.32	0.52	2015.218	23:59:45
AV.SPCP	105.8	108.7	74	66	80	0.88	0.72	1.08	2017.049	12:10:15
AV.SPCR	102.4	93.7	-60	-72	-23	0.92	0.28	1.48	2015.330	05:45:18
AV.SPNN	106.5	97.7	-36	-66	3	0.48	0.24	1.16	2014.236	23:21:46
AV.WACK	223.5	88.9	-23	-35	-15	0.96	0.60	1.28	2016.202	15:13:16
AV.WACK	109.3	91.2	-23	-33	-19	0.68	0.56	0.80	2016.353	13:30:11
AV.WACK	107.5	102.6	-32	-39	-31	0.76	0.68	0.80	2017.052	14:09:04
AV.WECS	92.5	99.5	63	60	68	1.00	0.92	1.12	2015.330	05:45:18
AV.WECS	93.0	100.8	69	66	74	0.76	0.64	0.88	2015.328	22:45:38
AV.WECS	92.8	100.3	67	58	76	0.80	0.60	0.96	2015.328	22:50:54
CN.DAWY	272.5	96.3	-44	-54	-35	0.80	0.65	0.90	2016.157	16:25:34
CN.DAWY	274.1	100.1	-42	-50	-39	0.75	0.65	0.85	2016.236	19:39:44
CN.HYT	274.4	100.8	-50	-70	-27	0.60	0.36	0.90	2016.340	01:13:05
CN.HYT	115.3	87.7	-23	-33	-17	1.00	0.82	1.18	2016.353	13:30:11
CN.INK	233.4	96.5	-59	-70	-56	0.60	0.45	0.80	2016.202	15:13:16
CN.INK	280.4	101.9	44	39	52	0.45	0.40	0.55	2016.236	19:39:44
CN.INK	279.5	101.6	39	29	50	0.45	0.35	0.60	2016.340	01:13:05
CN.INK	283.4	105.0	37	27	56	0.45	0.25	0.65	2016.364	22:30:18
CN.INK	282.6	89.1	73	52	88	0.60	0.40	1.00	2017.118	20:23:18
CN.INK	222.4	98.6	-74	-80	-70	0.65	0.55	0.75	2017.168	22:26:03
CN.WHY	277.5	102.5	-56	-70	-43	0.35	0.25	0.50	2016.236	19:39:44
CN.WHY	117.6	86.5	-12	-29	-1	2.25	1.75	2.60	2016.353	13:30:11
CN.YUK2	270.9	95.7	-73	-82	-66	0.56	0.38	0.74	2016.157	16:25:34
CN.YUK2	272.4	99.6	-64	-74	-54	0.62	0.44	0.82	2016.236	19:39:44
CN.YUK2	112.4	89.6	-42	-50	-35	0.92	0.72	1.14	2016.353	13:30:11
CN.YUK2	293.0	106.1	-11	-39	5	0.68	0.40	1.18	2017.225	03:08:11
CN.YUK3	274.4	103.2	-40	-52	-31	0.98	0.76	1.22	2016.043	10:02:25
CN.YUK3	295.0	105.2	-45	-60	-11	0.98	0.38	1.78	2016.153	22:56:01
CN.YUK3	271.3	95.9	-63	-70	-62	0.66	0.56	0.78	2016.157	16:25:34
CN.YUK3	276.3	106.4	-60	-72	-50	0.86	0.56	1.20	2016.161	04:13:08
CN.YUK3	295.0	105.2	-43	-52	-33	0.86	0.58	1.14	2016.153	22:56:01
CN.YUK3	286.8	104.3	-35	-54	-19	0.92	0.64	1.28	2016.293	00:26:01
CN.YUK3	112.7	89.4	-41	-48	-37	3.14	2.94	3.32	2016.353	13:30:11
CN.YUK3	115.9	102.7	2	-7	7	1.60	1.20	2.00	2017.105	08:19:42
CN.YUK4	312.2	85.2	76	74	84	0.66	0.60	0.74	2016.104	13:55:18
CN.YUK4	115.7	101.6	-36	-48	-27	1.08	0.80	1.38	2016.217	14:15:12
CN.YUK4	274.4	100.7	-68	-78	-64	1.86	1.56	2.20	2016.236	19:39:44
CN.YUK6	273.0	96.9	-61	-70	-58	1.12	0.98	1.24	2016.157	16:25:34
CN.YUK6	296.8	106.5	-39	-43	-37	1.82	1.64	1.98	2016.153	22:56:01
CN.YUK6	275.2	91.4	-59	-66	-58	1.38	1.18	1.62	2016.159	19:15:16
CN.YUK6	274.5	100.8	-50	-60	-46	1.28	1.10	1.46	2016.236	19:39:44
CN.YUK7	124.8	106.0	-5	-17	3	2.76	2.30	3.24	2016.041	00:33:06
CN.YUK7	312.6	86.0	-27	-31	-25	1.38	1.24	1.52	2016.104	13:55:18
CN.YUK7	296.9	106.8	-37	-43	-33	1.44	1.18	1.68	2016.153	22:56:01
CN.YUK7	275.4	91.6	-53	-70	-35	0.48	0.30	0.70	2016.159	19:15:16
CN.YUK7	278.0	107.6	-50	-64	-41	1.28	0.88	1.72	2016.161	04:13:08

CN.YUK7	296.9	106.8	-35	-41	-31	1.42	1.20	1.66	2016.153	22:56:01
CN.YUK7	114.7	87.9	-29	-37	-27	1.02	0.88	1.16	2016.353	13:30:11
CN.YUK7	113.0	99.3	-15	-23	-9	1.28	1.06	1.54	2017.052	14:09:04
CN.YUK8	113.3	88.9	-47	-52	-46	1.12	1.02	1.22	2016.353	13:30:11
IM.IL31	267.4	96.8	63	60	66	1.00	0.85	1.10	2015.058	13:45:05
IM.IL32	108.9	101.5	63	31	90	0.20	0.10	0.45	2015.082	04:51:37
IM.IL33	288.0	101.2	74	66	86	0.80	0.60	1.00	2015.135	20:26:56
IM.IL34	207.9	94.5	-84	-92	-84	0.75	0.65	0.85	2015.218	23:59:45
IM.IL35	289.7	101.4	76	72	78	0.95	0.90	1.00	2016.153	22:56:01
IM.IL36	206.1	98.1	88	86	90	0.85	0.75	0.95	2016.158	02:35:23
IM.IL37	267.6	87.4	44	39	50	1.30	1.10	1.45	2016.159	19:15:16
TA.A21K	197.1	88.0	61	56	68	1.10	0.95	1.25	2014.200	12:27:09
TA.A21K	200.5	92.3	72	56	88	0.85	0.55	1.15	2014.202	14:54:41
TA.A21K	199.9	92.2	66	56	74	0.80	0.65	0.95	2014.305	18:57:22
TA.A21K	102.0	120.7	56	43	70	0.60	0.45	0.70	2015.033	10:49:49
TA.A21K	259.0	94.0	39	35	41	0.85	0.80	0.95	2015.058	13:45:05
TA.A21K	283.7	95.4	42	35	50	1.00	0.80	1.25	2015.062	10:37:31
TA.A21K	279.8	96.1	42	35	50	0.60	0.45	0.70	2015.135	20:26:56
TA.A21K	195.8	87.7	36	29	43	1.70	1.25	2.05	2015.163	11:07:07
TA.A21K	105.7	118.3	62	48	76	0.65	0.45	0.90	2015.264	17:40:01
TA.A21K	252.1	91.6	46	37	54	1.00	0.75	1.20	2015.325	09:06:12
TA.A21K	97.4	97.2	41	31	54	0.65	0.50	0.85	2015.330	05:45:18
TA.A21K	261.2	97.2	39	29	50	0.95	0.70	1.20	2016.043	10:02:25
TA.A21K	281.5	96.2	41	37	46	0.80	0.70	0.90	2016.153	22:56:01
TA.A21K	281.5	96.2	41	37	46	0.80	0.70	0.85	2016.153	22:56:01
TA.A21K	259.1	94.0	33	25	41	1.05	0.85	1.20	2016.236	19:39:44
TA.A21K	258.2	93.8	38	37	43	0.85	0.80	0.95	2016.340	01:13:05
TA.A21K	253.9	92.5	46	39	52	0.95	0.75	1.15	2016.356	00:17:15
TA.A21K	262.1	96.9	40	37	46	0.85	0.80	0.95	2016.364	22:30:18
TA.A21K	200.4	95.8	64	52	78	0.75	0.60	0.95	2017.055	17:28:45
TA.A21K	200.7	90.6	79	64	90	1.15	0.70	1.70	2017.108	17:11:47
TA.A21K	201.8	96.9	62	52	72	0.60	0.50	0.70	2017.168	22:26:03
TA.A21K	201.1	90.6	67	52	82	0.60	0.45	0.75	2017.231	02:00:52
TA.B22K	282.9	98.6	33	31	37	1.15	1.00	1.30	2017.225	03:08:11
TA.B22K	204.1	90.1	76	48	98	0.25	0.15	0.45	2017.231	02:00:52
TA.C21K	202.8	88.8	-7	-17	-1	0.55	0.45	0.70	2017.231	02:00:52
TA.C23K	202.8	99.8	61	52	74	1.65	1.20	2.10	2016.195	11:56:59
TA.C24K	265.5	96.1	33	11	60	0.35	0.25	0.60	2016.340	01:13:05
TA.C24K	222.2	89.7	28	23	33	0.80	0.55	1.00	2017.129	13:52:11
TA.C26K	270.0	97.7	44	31	56	0.50	0.40	0.65	2016.236	19:39:44
TA.C26K	270.0	97.7	40	31	50	0.55	0.45	0.65	2016.236	19:39:44
TA.C26K	269.1	97.5	43	35	54	0.70	0.55	0.80	2016.340	01:13:05
TA.C26K	264.8	96.1	29	9	58	0.75	0.40	1.30	2016.356	00:17:15
TA.C26K	272.9	100.7	37	29	48	0.65	0.50	0.80	2016.364	22:30:18
TA.C26K	291.0	101.5	65	56	76	0.80	0.65	1.00	2017.225	03:08:11
TA.C27K	285.4	100.9	37	27	52	0.75	0.45	1.25	2016.293	00:26:01
TA.C27K	270.1	97.9	38	27	56	0.55	0.45	0.70	2016.340	01:13:05
TA.D23K	264.5	95.7	16	11	25	0.65	0.50	0.80	2016.236	19:39:44
TA.D23K	220.3	88.7	-20	-27	-13	0.85	0.70	0.95	2017.129	13:52:11
TA.D24K	219.5	93.0	-43	-52	-39	1.70	1.05	2.35	2016.202	15:13:16

TA.D24K	266.2	96.3	36	31	41	0.80	0.70	0.95	2016.236	19:39:44
TA.D24K	287.1	100.4	45	39	54	0.70	0.60	0.85	2017.225	03:08:11
TA.D25K	221.7	93.7	82	74	88	0.60	0.50	0.70	2016.202	15:13:16
TA.D25K	268.5	97.2	55	52	60	1.10	1.05	1.20	2016.236	19:39:44
TA.D25K	221.7	93.7	82	72	88	0.60	0.50	0.70	2016.202	15:13:16
TA.D25K	268.5	97.2	57	54	62	1.15	1.10	1.25	2016.236	19:39:44
TA.D25K	113.2	115.2	49	41	62	0.75	0.55	1.05	2016.325	20:57:44
TA.D25K	267.6	96.9	62	56	66	1.20	1.05	1.35	2016.340	01:13:05
TA.D25K	210.3	90.3	64	50	88	0.65	0.45	0.95	2017.108	17:11:47
TA.D25K	224.3	90.0	-74	-90	-66	0.65	0.45	0.90	2017.129	13:52:11
TA.D25K	211.0	96.6	69	62	76	0.65	0.55	0.80	2017.168	22:26:03
TA.D25K	289.5	101.2	55	46	68	0.75	0.60	0.95	2017.225	03:08:11
TA.D25K	210.7	90.3	65	62	72	0.75	0.65	0.85	2017.231	02:00:52
TA.D25K	209.8	92.0	74	64	84	0.80	0.65	0.95	2016.268	21:28:42
TA.E18K	275.8	96.5	48	29	66	0.70	0.45	1.00	2017.225	03:08:11
TA.E19K	278.9	97.8	49	31	68	0.55	0.40	0.80	2017.225	03:08:11
TA.E22K	219.3	87.8	-29	-39	-19	0.55	0.40	0.80	2017.129	13:52:11
TA.E22K	205.6	88.3	2	-25	11	0.30	0.20	0.45	2017.231	02:00:52
TA.E23K	264.5	95.7	40	15	66	0.70	0.40	1.10	2016.340	01:13:05
TA.E23K	260.3	94.2	18	7	37	0.85	0.55	1.25	2016.356	00:17:15
TA.E24K	266.4	96.4	22	17	29	0.90	0.75	1.05	2016.236	19:39:44
TA.E24K	265.5	96.1	16	13	19	1.30	1.15	1.45	2016.340	01:13:05
TA.E24K	105.2	94.7	47	37	60	0.90	0.65	1.25	2016.353	13:30:11
TA.E24K	222.4	88.5	-10	-21	1	0.65	0.55	0.75	2017.129	13:52:11
TA.E24K	207.3	101.9	-33	-43	-25	0.95	0.70	1.15	2017.180	07:03:11
TA.E25K	211.6	95.7	54	50	60	0.70	0.60	0.85	2017.168	22:26:03
TA.E25K	290.0	101.9	86	82	88	1.10	0.95	1.25	2017.225	03:08:11
TA.E25K	211.5	89.4	63	58	72	0.55	0.50	0.60	2017.231	02:00:52
TA.E25K	210.5	91.2	77	64	88	0.70	0.55	0.85	2016.268	21:28:42
TA.E27K	272.8	99.0	41	37	48	0.70	0.60	0.75	2016.236	19:39:44
TA.E27K	272.8	99.0	41	37	48	0.65	0.60	0.75	2016.236	19:39:44
TA.E27K	293.8	103.2	60	54	66	0.70	0.60	0.80	2017.225	03:08:11
TA.E27K	215.2	90.3	59	58	64	1.20	1.05	1.30	2017.231	02:00:52
TA.E27K	214.2	92.0	56	54	62	1.35	1.15	1.55	2016.268	21:28:42
TA.EPYK	214.8	99.1	55	50	62	0.85	0.65	1.10	2016.195	12:11:13
TA.EPYK	219.7	90.0	62	56	68	0.85	0.70	1.10	2017.231	02:00:52
TA.EPYK	218.6	91.7	63	58	70	0.90	0.75	1.10	2016.268	21:28:42
TA.F17K	275.0	96.3	43	39	50	1.15	1.00	1.30	2017.225	03:08:11
TA.F17K	196.8	85.4	61	54	70	0.40	0.35	0.45	2017.231	02:00:52
TA.F19K	278.3	97.7	54	48	62	1.15	1.00	1.35	2017.225	03:08:11
TA.F19K	200.0	86.2	70	66	82	0.70	0.60	0.85	2017.231	02:00:52
TA.F20K	280.2	98.4	66	62	74	1.15	1.00	1.35	2017.225	03:08:11
TA.F21K	261.7	94.4	30	17	41	0.40	0.30	0.50	2016.236	19:39:44
TA.F21K	261.7	94.4	30	17	39	0.40	0.30	0.55	2016.236	19:39:44
TA.F21K	260.8	94.1	39	29	50	0.55	0.40	0.65	2016.340	01:13:05
TA.F22K	201.4	97.3	81	62	90	0.75	0.50	1.05	2016.195	12:11:13
TA.F22K	262.9	95.0	43	37	50	0.75	0.65	0.85	2016.236	19:39:44
TA.F22K	262.9	95.0	43	37	50	0.70	0.60	0.80	2016.236	19:39:44
TA.F22K	262.1	94.6	42	37	50	0.65	0.60	0.75	2016.340	01:13:05
TA.F22K	204.0	100.8	84	70	92	0.75	0.50	1.00	2017.180	07:03:11

TA.F22K	204.4	89.5	86	70	96	0.45	0.30	0.70	2016.268	21:28:42
TA.F24K	266.9	96.6	25	23	29	0.80	0.70	0.85	2016.236	19:39:44
TA.F24K	266.9	96.6	27	23	29	0.75	0.70	0.85	2016.236	19:39:44
TA.F24K	266.0	96.3	24	21	31	0.80	0.70	0.90	2016.340	01:13:05
TA.F25K	222.3	92.6	64	56	82	0.70	0.40	0.95	2016.202	15:13:16
TA.F25K	269.0	97.5	25	15	37	0.50	0.35	0.65	2016.236	19:39:44
TA.F25K	222.3	92.6	64	56	84	0.70	0.40	1.05	2016.202	15:13:16
TA.F25K	269.0	97.5	25	17	39	0.50	0.35	0.65	2016.236	19:39:44
TA.F25K	211.0	88.9	71	56	88	0.75	0.60	1.00	2017.108	17:11:47
TA.F25K	211.5	95.3	64	60	66	1.00	0.95	1.10	2017.168	22:26:03
TA.F25K	289.8	102.0	48	37	62	0.60	0.45	0.80	2017.225	03:08:11
TA.F25K	211.4	89.0	69	66	72	0.80	0.75	0.85	2017.231	02:00:52
TA.F25K	210.5	90.7	66	62	74	0.70	0.60	0.80	2016.268	21:28:42
TA.F26K	212.4	89.3	70	54	90	0.90	0.60	1.30	2017.108	17:11:47
TA.F26K	212.9	95.6	65	58	76	0.80	0.65	1.05	2017.168	22:26:03
TA.F26K	211.9	91.1	82	70	88	0.75	0.65	0.90	2016.268	21:28:42
TA.F28M	216.8	90.2	59	54	66	0.95	0.75	1.25	2017.231	02:00:52
TA.F31M	294.5	105.0	56	48	70	0.40	0.30	0.50	2016.293	00:26:01
TA.F31M	279.1	101.7	59	56	66	0.75	0.70	0.85	2016.340	01:13:05
TA.F31M	118.8	89.3	63	60	68	0.65	0.60	0.70	2016.353	13:30:11
TA.F31M	274.9	100.1	65	48	80	0.80	0.55	1.20	2016.356	00:17:15
TA.F31M	284.3	91.1	78	76	84	0.95	0.80	1.10	2017.010	06:13:47
TA.F31M	222.0	91.5	76	62	90	0.80	0.60	1.10	2017.108	17:11:47
TA.F31M	284.2	97.2	78	74	84	0.90	0.80	1.05	2017.149	14:35:21
TA.F31M	301.3	106.2	69	62	78	0.65	0.50	0.75	2017.225	03:08:11
TA.F31M	222.4	91.6	80	80	84	0.80	0.75	0.85	2017.231	02:00:52
TA.F31M	221.3	93.2	79	76	86	0.80	0.70	0.85	2016.268	21:28:42
TA.G17K	275.5	96.7	41	37	48	1.00	0.90	1.10	2017.225	03:08:11
TA.G19K	278.8	98.0	55	52	58	0.85	0.75	0.90	2017.225	03:08:11
TA.G21K	261.6	94.3	40	21	54	0.85	0.65	1.05	2016.236	19:39:44
TA.G21K	261.6	94.3	32	19	43	0.80	0.60	1.00	2016.236	19:39:44
TA.G21K	260.8	94.0	33	19	48	0.95	0.70	1.25	2016.340	01:13:05
TA.G21K	204.4	92.9	56	39	88	0.50	0.25	0.80	2017.168	22:26:03
TA.G21K	202.8	99.7	59	46	78	0.85	0.55	1.15	2017.180	07:03:11
TA.G22K	263.5	95.1	28	21	35	0.95	0.80	1.10	2016.236	19:39:44
TA.G22K	263.5	95.1	32	21	39	0.85	0.70	1.05	2016.236	19:39:44
TA.G22K	104.5	109.9	64	56	76	1.30	0.95	1.60	2017.049	12:10:15
TA.G22K	206.2	93.6	58	50	70	0.95	0.70	1.20	2017.168	22:26:03
TA.G22K	204.6	100.4	67	46	90	0.60	0.30	1.00	2017.180	07:03:11
TA.G22K	284.2	100.0	52	48	62	1.20	1.00	1.40	2017.225	03:08:11
TA.G22K	205.9	87.3	62	50	76	0.65	0.50	0.85	2017.231	02:00:52
TA.G22K	205.1	89.0	73	66	82	0.75	0.65	0.85	2016.268	21:28:42
TA.G23K	203.3	96.8	69	62	78	1.15	1.00	1.35	2016.195	12:11:13
TA.G23K	264.8	95.7	53	43	62	0.65	0.50	0.80	2016.236	19:39:44
TA.G23K	104.5	108.1	51	37	70	0.80	0.55	1.05	2016.217	14:15:12
TA.G23K	264.8	95.7	57	52	62	0.70	0.60	0.80	2016.236	19:39:44
TA.G23K	264.0	95.4	60	54	64	0.85	0.65	0.95	2016.340	01:13:05
TA.G23K	101.4	106.1	61	48	74	1.20	0.80	1.60	2017.052	14:09:04
TA.G23K	207.6	93.7	72	64	78	0.95	0.85	1.10	2017.168	22:26:03
TA.G23K	205.8	100.4	70	62	78	1.00	0.85	1.15	2017.180	07:03:11

TA.G23K	285.5	100.7	74	60	82	0.65	0.50	0.80	2017.225	03:08:11
TA.G23K	207.3	87.4	73	66	82	0.70	0.60	0.80	2017.231	02:00:52
TA.G23K	206.4	89.1	78	74	86	0.95	0.85	1.10	2016.268	21:28:42
TA.G24K	106.8	107.1	49	43	58	0.95	0.75	1.10	2016.217	14:15:12
TA.G24K	267.2	96.7	47	39	54	0.75	0.60	0.85	2016.236	19:39:44
TA.G24K	106.8	107.1	49	43	58	0.95	0.80	1.15	2016.217	14:15:12
TA.G24K	267.2	96.7	47	39	56	0.70	0.55	0.80	2016.236	19:39:44
TA.G24K	113.4	114.6	-79	-88	-76	1.90	1.00	2.70	2016.325	20:57:44
TA.G24K	266.3	96.4	56	37	70	0.70	0.40	1.00	2016.340	01:13:05
TA.G24K	106.3	93.9	60	52	72	0.75	0.60	0.90	2016.353	13:30:11
TA.G24K	103.6	105.2	50	43	56	0.75	0.65	0.90	2017.052	14:09:04
TA.G24K	209.3	87.8	-83	-92	-80	1.35	1.00	1.75	2017.108	17:11:47
TA.G24K	208.0	100.9	74	70	84	0.95	0.80	1.15	2017.180	07:03:11
TA.G24K	287.9	101.6	56	46	68	0.50	0.40	0.60	2017.225	03:08:11
TA.G24K	209.7	87.8	82	74	88	0.60	0.50	0.70	2017.231	02:00:52
TA.G24K	208.8	89.6	81	74	88	0.80	0.70	0.90	2016.268	21:28:42
TA.G25K	211.1	94.5	87	80	90	0.75	0.65	0.85	2017.168	22:26:03
TA.G25K	211.0	88.2	83	78	88	0.70	0.60	0.75	2017.231	02:00:52
TA.G26K	213.6	94.4	78	64	90	1.00	0.70	1.30	2017.002	13:14:03
TA.G26K	213.1	95.1	89	86	92	0.95	0.85	1.10	2017.168	22:26:03
TA.G26K	213.1	88.8	-77	-84	-76	1.10	0.95	1.25	2017.231	02:00:52
TA.G26K	212.2	90.5	-80	-88	-78	1.05	0.90	1.20	2016.268	21:28:42
TA.G27K	111.6	91.8	-86	-98	-80	0.75	0.40	1.10	2016.353	13:30:11
TA.G27K	214.7	89.1	89	70	100	1.30	0.95	1.75	2017.108	17:11:47
TA.G27K	228.7	89.5	89	70	110	0.45	0.35	0.65	2017.129	13:52:11
TA.G27K	215.0	95.5	79	74	86	1.25	1.05	1.45	2017.168	22:26:03
TA.G27K	215.1	89.2	79	74	86	1.05	0.95	1.15	2017.231	02:00:52
TA.G27K	214.1	90.8	82	76	88	1.10	0.95	1.25	2016.268	21:28:42
TA.G29M	218.5	90.1	70	70	76	0.95	0.85	1.00	2017.231	02:00:52
TA.G30M	292.0	104.3	46	37	56	0.85	0.65	1.05	2016.293	00:26:01
TA.G30M	276.7	100.8	37	33	41	0.95	0.85	1.05	2016.340	01:13:05
TA.G30M	282.1	90.2	38	35	43	0.95	0.90	1.05	2017.010	06:13:47
TA.G30M	280.2	88.3	38	35	46	1.05	0.95	1.15	2017.118	20:23:18
TA.H17K	276.1	97.0	26	23	33	0.80	0.60	0.95	2017.225	03:08:11
TA.H18K	198.6	97.7	-45	-56	-39	0.95	0.70	1.20	2017.180	07:03:11
TA.H20K	280.8	99.0	31	23	50	0.65	0.35	1.00	2017.225	03:08:11
TA.H21K	101.5	94.9	69	64	76	0.90	0.75	1.00	2015.330	05:45:18
TA.H21K	257.1	88.7	49	41	58	1.05	0.80	1.35	2015.343	10:21:50
TA.H21K	109.3	116.2	69	54	84	1.10	0.75	1.45	2016.325	20:57:44
TA.H21K	101.5	95.7	72	64	80	0.75	0.55	0.90	2016.353	13:30:11
TA.H22K	263.5	95.1	40	33	46	0.85	0.75	0.95	2016.236	19:39:44
TA.H22K	262.7	94.7	41	35	50	0.90	0.75	1.05	2016.340	01:13:05
TA.H22K	258.5	93.1	33	21	46	1.15	0.85	1.40	2016.356	00:17:15
TA.H22K	100.4	106.5	70	60	80	0.65	0.45	0.80	2017.052	14:09:04
TA.H22K	204.6	99.5	53	48	60	0.95	0.75	1.15	2017.180	07:03:11
TA.H23K	205.6	94.9	-82	-96	-78	1.45	0.85	2.00	2015.218	23:59:45
TA.H23K	204.7	99.2	85	74	92	1.30	0.95	1.70	2015.236	09:41:26
TA.H23K	287.4	100.0	77	74	84	0.90	0.80	1.00	2016.153	22:56:01
TA.H23K	287.4	100.0	79	74	84	0.90	0.80	1.00	2016.153	22:56:01
TA.H23K	269.1	102.2	69	66	74	1.95	1.65	2.25	2016.161	04:13:08

TA.H23K	218.8	90.3	-83	-94	-76	1.05	0.75	1.40	2016.202	15:13:16
TA.H23K	285.8	101.1	74	68	78	0.80	0.70	0.95	2017.225	03:08:11
TA.H24K	207.1	95.2	65	60	72	1.60	1.35	1.80	2015.218	23:59:45
TA.H24K	206.2	99.5	62	58	72	1.30	1.10	1.50	2015.236	09:41:26
TA.H24K	105.9	93.0	74	66	80	1.15	0.95	1.30	2015.330	05:45:18
TA.H24K	268.5	99.9	57	52	64	1.05	0.85	1.15	2016.043	10:02:25
TA.H24K	280.1	103.5	62	60	68	0.95	0.85	1.05	2016.097	14:45:30
TA.H24K	289.0	100.7	63	62	66	1.10	1.05	1.20	2016.153	22:56:01
TA.H24K	264.9	92.7	59	58	64	1.30	1.15	1.45	2016.157	16:25:34
TA.H24K	270.6	102.9	61	56	66	1.10	0.95	1.25	2016.161	04:13:08
TA.H24K	289.0	100.7	63	60	66	1.10	1.05	1.20	2016.153	22:56:01
TA.H24K	264.9	92.7	59	58	64	1.30	1.15	1.45	2016.157	16:25:34
TA.H24K	266.7	87.1	61	60	64	1.60	1.50	1.70	2016.159	19:15:16
TA.H24K	270.6	102.9	61	56	66	1.10	0.90	1.25	2016.161	04:13:08
TA.H24K	106.7	107.0	57	41	76	1.30	0.80	1.75	2016.217	14:15:12
TA.H24K	266.7	96.5	55	54	60	1.15	1.05	1.20	2016.236	19:39:44
TA.H24K	280.8	100.2	55	48	64	1.15	0.95	1.40	2016.293	00:26:01
TA.H24K	265.8	96.2	60	56	64	1.05	0.90	1.20	2016.340	01:13:05
TA.H24K	296.0	95.4	56	52	58	1.60	1.45	1.80	2016.341	22:03:32
TA.H24K	209.5	93.3	63	58	68	1.50	1.30	1.70	2017.168	22:26:03
TA.H24K	287.4	101.7	61	60	64	1.15	1.10	1.20	2017.225	03:08:11
TA.H24K	209.4	87.0	55	52	64	1.60	1.25	1.95	2017.231	02:00:52
TA.H24K	208.4	88.7	58	54	68	1.55	1.20	1.85	2016.268	21:28:42
TA.H25K	108.4	106.4	66	56	80	1.05	0.75	1.35	2016.217	14:15:12
TA.H25L	211.3	94.1	-87	-98	-82	1.10	0.75	1.40	2017.168	22:26:03
TA.H27K	214.8	88.7	85	64	100	0.70	0.50	1.00	2017.108	17:11:47
TA.H27K	215.1	95.0	81	74	88	0.75	0.65	0.80	2017.168	22:26:03
TA.H27K	215.2	88.7	-83	-90	-82	0.70	0.60	0.80	2017.231	02:00:52
TA.H27K	214.2	90.4	84	78	90	0.70	0.60	0.80	2016.268	21:28:42
TA.H29M	218.1	89.5	66	66	74	1.00	0.90	1.10	2017.231	02:00:52
TA.H31M	221.8	90.2	88	54	116	0.35	0.20	0.80	2017.231	02:00:52
TA.I21K	203.4	93.9	75	60	88	0.50	0.35	0.70	2015.218	23:59:45
TA.I21K	202.6	98.2	79	62	90	0.55	0.35	0.75	2015.236	09:41:26
TA.I21K	102.3	94.5	52	46	64	0.70	0.60	0.80	2015.330	05:45:18
TA.I21K	257.9	89.0	34	29	37	1.55	1.40	1.75	2015.343	10:21:50
TA.I21K	264.7	98.1	33	29	37	1.00	0.90	1.05	2016.043	10:02:25
TA.I21K	285.0	99.3	43	31	64	0.60	0.35	0.90	2016.153	22:56:01
TA.I21K	261.2	91.0	35	29	41	1.30	1.15	1.50	2016.157	16:25:34
TA.I21K	266.7	101.1	37	25	50	0.80	0.60	1.00	2016.161	04:13:08
TA.I21K	205.8	91.9	82	60	94	0.40	0.25	0.55	2017.168	22:26:03
TA.I21K	283.4	100.3	51	41	64	0.55	0.45	0.65	2017.225	03:08:11
TA.I23K	206.7	87.6	69	52	88	0.80	0.60	1.10	2014.305	18:57:22
TA.I23K	258.5	91.5	43	35	52	1.85	1.45	2.30	2014.340	22:05:11
TA.I23K	265.2	95.8	53	50	58	1.25	1.10	1.40	2015.058	13:45:05
TA.I23K	285.8	100.1	54	48	62	0.75	0.65	0.85	2015.135	20:26:56
TA.I23K	205.7	94.3	70	60	80	1.20	0.95	1.45	2015.218	23:59:45
TA.I23K	204.9	98.6	73	62	84	1.15	0.85	1.45	2015.236	09:41:26
TA.I23K	258.6	92.7	39	25	54	1.35	0.95	1.80	2015.325	09:06:12
TA.I23K	104.6	93.4	65	62	70	1.40	1.30	1.55	2015.330	05:45:18
TA.I23K	260.3	90.0	44	43	50	1.45	1.35	1.55	2015.343	10:21:50

TA.I23K	267.1	99.2	53	46	58	1.00	0.85	1.15	2016.043	10:02:25
TA.I23K	287.4	100.3	53	50	60	0.75	0.70	0.85	2016.153	22:56:01
TA.I23K	263.6	92.1	48	43	52	1.25	1.10	1.40	2016.157	16:25:34
TA.I23K	265.3	86.4	45	43	48	1.60	1.55	1.70	2016.159	19:15:16
TA.I23K	269.1	102.2	55	50	62	1.15	1.00	1.35	2016.161	04:13:08
TA.I23K	287.4	100.3	53	52	60	0.75	0.70	0.80	2016.153	22:56:01
TA.I23K	265.3	86.4	45	41	48	1.60	1.50	1.75	2016.159	19:15:16
TA.I23K	269.1	102.2	57	52	64	1.15	1.00	1.35	2016.161	04:13:08
TA.I23K	265.3	95.8	55	50	60	1.10	1.00	1.25	2016.236	19:39:44
TA.I23K	264.4	95.5	52	43	62	1.15	0.85	1.45	2016.340	01:13:05
TA.I23K	260.3	93.8	42	31	56	1.50	1.10	1.95	2016.356	00:17:15
TA.I23K	106.9	108.6	55	50	62	1.95	1.70	2.20	2017.049	12:10:15
TA.I23K	102.4	105.6	42	37	50	1.55	1.30	1.80	2017.052	14:09:04
TA.I23K	208.1	92.4	66	56	80	1.05	0.80	1.30	2017.168	22:26:03
TA.I23K	285.8	101.3	58	54	64	0.80	0.70	0.90	2017.225	03:08:11
TA.I23K	208.0	86.1	76	66	86	0.80	0.65	0.95	2017.231	02:00:52
TA.I26K	227.4	88.1	-87	-96	-78	0.90	0.70	1.05	2017.129	13:52:11
TA.I27K	109.1	102.6	-81	-90	-78	0.75	0.40	1.15	2017.052	14:09:04
TA.I29M	275.4	100.5	41	31	50	0.55	0.45	0.70	2016.236	19:39:44
TA.I29M	275.4	91.0	39	29	52	0.85	0.65	1.10	2016.159	19:15:16
TA.I29M	112.1	101.2	50	41	68	0.55	0.35	0.80	2017.052	14:09:04
TA.I29M	218.2	88.8	-86	-100	-76	0.50	0.40	0.65	2017.231	02:00:52
TA.I29M	217.2	90.5	71	60	90	0.65	0.45	0.90	2016.268	21:28:42
TA.I30M	298.2	106.4	60	58	66	0.90	0.80	0.95	2017.225	03:08:11
TA.J18K	201.5	89.5	-8	-15	-7	0.85	0.75	0.95	2017.168	22:26:03
TA.J18K	200.0	96.4	-12	-31	-3	0.80	0.55	1.10	2017.180	07:03:11
TA.J19K	279.9	99.0	42	33	52	0.85	0.65	1.00	2017.225	03:08:11
TA.J20K	254.2	90.5	30	21	41	1.60	1.20	2.00	2015.325	09:06:12
TA.J20K	100.4	95.2	34	27	50	0.80	0.55	1.15	2015.330	05:45:18
TA.J20K	255.9	87.8	38	31	41	1.70	1.50	1.90	2015.343	10:21:50
TA.J20K	262.6	97.1	29	25	35	1.40	1.25	1.55	2016.043	10:02:25
TA.J20K	264.6	100.1	31	27	37	1.45	1.25	1.60	2016.161	04:13:08
TA.J20K	264.6	100.1	31	27	37	1.45	1.25	1.60	2016.161	04:13:08
TA.J20K	214.6	87.8	11	5	15	1.30	1.10	1.50	2016.202	15:13:16
TA.J20K	260.9	93.7	31	27	35	1.45	1.30	1.55	2016.236	19:39:44
TA.J20K	260.0	93.3	30	25	35	1.40	1.25	1.55	2016.340	01:13:05
TA.J20K	255.9	91.6	28	17	35	1.90	1.50	2.35	2016.356	00:17:15
TA.J20K	263.6	97.0	28	23	31	1.45	1.30	1.60	2016.364	22:30:18
TA.J25K	269.2	87.6	39	33	43	1.25	1.10	1.40	2015.259	07:40:60
TA.J25K	263.9	91.6	42	31	52	0.90	0.70	1.10	2015.343	10:21:50
TA.J25K	267.1	93.7	39	33	46	0.80	0.65	0.90	2016.157	16:25:34
TA.J25K	269.0	88.1	45	35	54	1.40	1.10	1.75	2016.159	19:15:16
TA.J25K	269.0	88.1	45	35	54	1.40	1.10	1.70	2016.159	19:15:16
TA.J25K	222.5	90.5	-23	-31	-17	0.75	0.60	0.90	2016.202	15:13:16
TA.J25K	268.8	97.5	43	39	50	0.80	0.70	0.90	2016.236	19:39:44
TA.J26L	109.9	90.8	-34	-52	-13	0.35	0.25	0.45	2015.330	05:45:18
TA.J26L	270.6	88.9	41	23	66	0.65	0.50	0.90	2016.159	19:15:16
TA.J29M	213.4	97.2	-85	-94	-80	1.20	0.90	1.55	2016.195	12:11:13
TA.J29M	228.9	92.6	-81	-90	-76	0.90	0.75	1.00	2016.202	15:13:16
TA.J29M	228.9	92.6	-81	-92	-74	0.90	0.70	1.05	2016.202	15:13:16

TA.J29M	217.9	94.4	-84	-94	-80	1.00	0.80	1.25	2017.168	22:26:03
TA.J29M	218.3	88.1	-78	-88	-74	1.05	0.85	1.25	2017.231	02:00:52
TA.J29M	217.2	89.8	-81	-90	-80	1.10	0.95	1.25	2016.268	21:28:42
TA.J30M	220.0	88.7	-74	-80	-74	1.15	1.00	1.30	2017.231	02:00:52
TA.K15K	274.3	96.5	38	27	56	0.70	0.50	0.95	2017.225	03:08:11
TA.K17K	277.3	98.0	41	31	54	0.65	0.50	0.85	2017.225	03:08:11
TA.K20K	201.6	91.9	-30	-46	-17	0.60	0.45	0.75	2015.218	23:59:45
TA.K20K	262.6	97.0	13	11	17	1.45	1.25	1.65	2016.043	10:02:25
TA.K20K	246.2	106.8	4	-5	19	0.80	0.55	1.10	2016.141	18:14:05
TA.K20K	214.7	87.1	-19	-27	-17	1.15	1.00	1.25	2016.202	15:13:16
TA.K20K	260.9	93.6	17	13	21	1.40	1.25	1.60	2016.236	19:39:44
TA.K20K	260.1	93.2	20	17	25	1.90	1.70	2.05	2016.340	01:13:05
TA.K20K	203.9	89.9	-10	-23	-3	0.90	0.70	1.15	2017.168	22:26:03
TA.K24K	266.7	93.5	47	35	58	0.80	0.60	1.00	2016.157	16:25:34
TA.K24K	268.7	87.9	27	21	33	1.00	0.85	1.20	2016.159	19:15:16
TA.K24K	268.4	97.3	46	35	60	0.50	0.40	0.65	2016.236	19:39:44
TA.K24K	267.5	96.9	41	21	60	0.60	0.40	0.85	2016.340	01:13:05
TA.K24K	271.0	100.6	35	11	74	0.40	0.15	0.85	2016.364	22:30:18
TA.K27K	115.5	94.1	-47	-58	-35	0.85	0.50	1.40	2014.236	23:21:46
TA.K27K	155.5	93.2	-51	-88	-37	0.75	0.35	1.35	2014.249	06:53:14
TA.K27K	153.5	99.3	-66	-104	-39	0.65	0.35	1.45	2014.282	02:14:33
TA.K27K	265.0	94.4	57	37	72	1.60	0.85	2.30	2014.340	22:05:11
TA.K29K	122.6	109.6	81	60	98	1.15	0.65	1.65	2016.325	20:57:44
TA.K29K	115.3	89.0	-31	-41	-23	0.40	0.30	0.45	2016.353	13:30:11
TA.K29K	218.5	87.8	-75	-84	-74	1.85	1.45	2.15	2017.108	17:11:47
TA.K29K	232.5	89.0	-69	-76	-70	1.25	1.15	1.35	2017.129	13:52:11
TA.K29K	218.5	94.1	-75	-80	-76	1.60	1.50	1.70	2017.168	22:26:03
TA.K29K	218.9	87.8	-71	-76	-72	1.55	1.40	1.70	2017.231	02:00:52
TA.K29K	217.9	89.5	-74	-84	-74	1.65	1.40	1.85	2016.268	21:28:42
TA.L15K	274.3	96.6	34	27	46	0.85	0.65	1.10	2017.225	03:08:11
TA.L18K	201.6	88.4	-46	-56	-43	0.90	0.70	1.15	2017.168	22:26:03
TA.L19K	200.9	90.6	5	-23	13	0.60	0.25	1.10	2015.218	23:59:45
TA.L19K	200.1	95.0	-14	-33	1	0.35	0.25	0.55	2015.236	09:41:26
TA.L19K	255.4	87.0	11	5	19	1.45	1.10	1.80	2015.343	10:21:50
TA.L19K	261.8	96.5	20	11	27	1.30	1.00	1.65	2016.043	10:02:25
TA.L19K	260.2	93.1	12	11	17	1.40	1.25	1.50	2016.236	19:39:44
TA.L19K	259.3	92.6	17	13	21	1.25	1.05	1.40	2016.340	01:13:05
TA.L19K	203.2	88.7	-5	-13	-1	0.55	0.50	0.65	2017.168	22:26:03
TA.L20K	100.8	94.7	-19	-43	-7	0.65	0.40	0.95	2015.330	05:45:18
TA.L20K	262.6	97.0	17	13	21	1.40	1.20	1.65	2016.043	10:02:25
TA.L20K	282.9	99.1	-3	-13	-1	0.90	0.60	1.15	2016.153	22:56:01
TA.L20K	259.5	89.7	13	9	17	1.20	1.05	1.40	2016.157	16:25:34
TA.L20K	204.1	89.1	-34	-41	-27	1.65	1.30	2.00	2017.168	22:26:03
TA.L26K	212.2	87.0	88	78	96	0.60	0.50	0.75	2014.305	18:57:22
TA.L26K	210.9	93.7	89	58	106	0.80	0.40	1.35	2015.218	23:59:45
TA.L27K	211.1	98.3	89	84	90	1.35	1.15	1.50	2015.236	09:41:26
TA.L27K	270.2	95.2	-54	-70	-35	0.30	0.20	0.40	2016.157	16:25:34
TA.L27K	271.8	99.1	-46	-72	-23	0.30	0.20	0.45	2016.236	19:39:44
TA.L27K	214.7	92.3	-75	-80	-74	1.40	1.25	1.60	2017.168	22:26:03
TA.L27K	215.0	86.0	-79	-88	-78	0.95	0.75	1.05	2017.231	02:00:52

TA.L29M	114.8	88.9	-15	-35	3	0.20	0.15	0.30	2016.353	13:30:11
TA.L29M	232.0	88.3	-68	-82	-62	0.75	0.60	0.90	2017.129	13:52:11
TA.L29M	218.0	93.4	-72	-78	-74	1.55	1.45	1.70	2017.168	22:26:03
TA.M14K	196.8	86.2	-37	-62	-9	0.40	0.20	0.70	2017.168	22:26:03
TA.M15K	198.0	86.3	-6	-17	-1	0.75	0.55	0.95	2017.168	22:26:03
TA.M15K	274.9	97.1	37	23	64	0.45	0.30	0.65	2017.225	03:08:11
TA.M17K	200.9	87.5	-11	-31	1	0.50	0.35	0.70	2017.168	22:26:03
TA.M18K	202.3	87.9	-38	-46	-31	0.80	0.65	0.90	2017.168	22:26:03
TA.M19K	200.4	94.8	-24	-41	-9	0.75	0.55	0.95	2015.236	09:41:26
TA.M19K	100.4	94.9	-44	-64	-19	0.50	0.35	0.75	2015.330	05:45:18
TA.M19K	262.1	96.7	40	31	50	0.75	0.60	0.85	2016.043	10:02:25
TA.M19K	282.3	99.0	-42	-52	-33	0.75	0.60	0.90	2016.153	22:56:01
TA.M19K	282.3	99.0	-42	-52	-35	0.75	0.65	0.85	2016.153	22:56:01
TA.M19K	260.6	93.2	29	19	37	0.70	0.55	0.90	2016.236	19:39:44
TA.M19K	259.7	92.8	26	11	43	0.60	0.40	0.80	2016.340	01:13:05
TA.M19K	203.6	88.5	-2	-11	1	1.25	1.00	1.55	2017.168	22:26:03
TA.M19K	280.6	99.9	-51	-62	-43	0.70	0.55	0.90	2017.225	03:08:11
TA.M20K	202.4	90.7	-30	-54	-5	0.60	0.25	1.05	2015.218	23:59:45
TA.M20K	283.4	99.6	-3	-11	1	1.15	0.80	1.60	2016.153	22:56:01
TA.M20K	260.8	93.4	-63	-76	-56	0.95	0.70	1.25	2016.340	01:13:05
TA.M20K	101.6	95.1	-12	-23	-7	0.85	0.65	1.05	2016.353	13:30:11
TA.M22K	104.1	92.9	-56	-64	-54	1.55	1.30	1.80	2015.330	05:45:18
TA.M22K	265.8	98.7	-64	-72	-62	1.25	1.10	1.40	2016.043	10:02:25
TA.M22K	286.1	101.0	-44	-48	-41	1.40	1.25	1.55	2016.153	22:56:01
TA.M22K	286.1	101.0	-44	-48	-41	1.40	1.25	1.50	2016.153	22:56:01
TA.M22K	278.0	99.9	-46	-58	-43	1.45	1.30	1.65	2016.293	00:26:01
TA.M22K	104.2	93.7	-48	-56	-43	1.85	1.70	2.00	2016.353	13:30:11
TA.M22K	266.8	98.6	-65	-72	-64	1.40	1.25	1.55	2016.364	22:30:18
TA.M22K	284.4	102.0	-46	-52	-43	1.35	1.20	1.50	2017.225	03:08:11
TA.M23K	264.9	92.5	27	13	46	0.40	0.25	0.65	2016.157	16:25:34
TA.M23K	267.0	86.9	39	23	58	0.45	0.30	0.60	2016.159	19:15:16
TA.M23K	106.3	92.6	66	43	86	0.30	0.20	0.40	2016.353	13:30:11
TA.M23K	268.9	99.7	-83	-90	-84	1.90	1.40	2.30	2016.364	22:30:18
TA.M23K	104.7	104.1	45	29	68	0.35	0.25	0.60	2017.052	14:09:04
TA.M24K	208.4	92.3	72	52	92	0.50	0.30	0.70	2015.218	23:59:45
TA.M24K	210.1	85.8	60	54	70	0.60	0.50	0.75	2016.268	21:28:42
TA.M26K	265.9	92.5	14	5	31	0.85	0.45	1.35	2015.343	10:21:50
TA.M26K	269.1	94.7	17	11	27	0.40	0.25	0.55	2016.157	16:25:34
TA.M27K	212.2	93.5	78	50	98	0.90	0.60	1.50	2015.218	23:59:45
TA.M27K	293.8	104.4	-84	-118	-78	0.65	0.25	1.15	2016.153	22:56:01
TA.M27K	271.6	99.1	-64	-74	-60	0.70	0.50	0.85	2016.236	19:39:44
TA.M29M	274.7	100.7	-65	-70	-64	1.10	1.00	1.20	2016.236	19:39:44
TA.M29M	274.7	100.7	-65	-70	-64	1.10	1.00	1.20	2016.236	19:39:44
TA.M29M	273.8	100.2	-64	-74	-60	1.00	0.75	1.20	2016.340	01:13:05
TA.M29M	269.8	98.3	-50	-68	-37	1.10	0.80	1.45	2016.356	00:17:15
TA.M29M	231.7	87.8	-70	-80	-70	0.70	0.65	0.75	2017.129	13:52:11
TA.M30M	122.6	102.9	-23	-33	-15	1.45	1.10	1.75	2016.207	17:26:50
TA.M30M	117.0	101.4	-33	-46	-21	0.80	0.55	1.05	2016.217	14:15:12
TA.M30M	122.6	102.9	-27	-37	-23	1.50	1.15	1.85	2016.207	17:26:50
TA.M30M	117.0	101.4	-31	-39	-25	0.80	0.65	0.90	2016.217	14:15:12

TA.M30M	116.0	88.2	-40	-50	-39	1.35	1.25	1.50	2016.353	13:30:11
TA.M30M	113.8	99.5	-44	-52	-43	1.40	1.25	1.50	2017.052	14:09:04
TA.M30M	219.1	93.3	-85	-120	-68	0.60	0.30	1.05	2017.168	22:26:03
TA.M31M	278.3	102.6	-52	-60	-48	0.80	0.70	0.95	2016.236	19:39:44
TA.M31M	278.8	93.2	-47	-58	-39	0.90	0.75	1.10	2016.159	19:15:16
TA.M31M	278.3	102.6	-52	-60	-48	0.85	0.70	0.95	2016.236	19:39:44
TA.M31M	277.4	102.2	-47	-68	-27	0.70	0.45	1.00	2016.340	01:13:05
TA.N14K	273.9	96.6	64	54	72	0.90	0.65	1.20	2017.225	03:08:11
TA.N16K	278.2	97.2	36	29	46	1.20	0.90	1.55	2016.153	22:56:01
TA.N16K	278.2	97.2	36	31	48	1.20	0.90	1.50	2016.153	22:56:01
TA.N16K	256.7	90.9	23	19	29	1.30	1.15	1.45	2016.236	19:39:44
TA.N16K	198.1	93.2	-6	-17	1	1.20	0.85	1.55	2017.180	07:03:11
TA.N18K	200.0	89.1	-30	-39	-27	0.80	0.70	0.90	2015.218	23:59:45
TA.N18K	199.2	93.4	-17	-33	-7	0.95	0.65	1.20	2015.236	09:41:26
TA.N18K	202.3	87.1	-38	-46	-35	0.95	0.80	1.10	2017.168	22:26:03
TA.N19K	261.9	96.5	34	15	54	0.70	0.45	0.95	2016.043	10:02:25
TA.N20K	205.6	88.3	82	66	92	0.45	0.30	0.60	2017.168	22:26:03
TA.N20K	205.5	82.0	64	56	74	0.55	0.45	0.65	2017.231	02:00:52
TA.N25K	262.6	93.0	43	25	62	1.10	0.65	1.80	2014.340	22:05:11
TA.N25K	269.0	97.8	11	7	17	1.05	0.65	1.55	2015.058	13:45:05
TA.N25K	269.8	88.4	30	19	39	1.05	0.80	1.45	2016.159	19:15:16
TA.N30M	116.9	101.0	-3	-11	3	0.75	0.60	0.90	2016.217	14:15:12
TA.N30M	275.7	101.4	-44	-50	-43	0.90	0.85	1.00	2016.236	19:39:44
TA.N30M	298.1	106.8	-36	-43	-29	1.00	0.80	1.15	2016.153	22:56:01
TA.N30M	276.4	92.0	-36	-43	-31	0.80	0.70	0.90	2016.159	19:15:16
TA.N30M	116.9	101.0	-3	-13	3	0.80	0.60	0.95	2016.217	14:15:12
TA.N30M	275.7	101.4	-42	-50	-43	0.90	0.85	1.00	2016.236	19:39:44
TA.N30M	274.9	101.0	-43	-54	-37	0.90	0.75	1.05	2016.340	01:13:05
TA.N30M	281.2	91.0	-31	-39	-27	0.80	0.75	0.85	2017.010	06:13:47
TA.N30M	296.4	107.8	-34	-46	-25	0.80	0.60	1.05	2017.225	03:08:11
TA.N31M	114.9	98.6	-35	-41	-31	0.70	0.60	0.80	2017.052	14:09:04
TA.N32M	120.3	99.1	-14	-23	-5	0.65	0.50	0.75	2016.217	14:15:12
TA.N32M	233.3	92.4	-63	-80	-56	1.00	0.70	1.45	2016.202	15:13:16
TA.N32M	120.3	99.1	-14	-25	-5	0.60	0.50	0.75	2016.217	14:15:12
TA.N32M	126.9	106.3	9	-3	17	1.10	0.80	1.40	2016.325	20:57:44
TA.N32M	117.2	97.3	-27	-33	-25	0.75	0.70	0.85	2017.052	14:09:04
TA.O14K	274.2	96.9	54	50	60	1.30	1.15	1.45	2017.225	03:08:11
TA.O16K	260.5	97.7	10	7	15	1.40	1.15	1.60	2016.161	04:13:08
TA.O16K	257.2	91.0	9	7	11	1.25	1.15	1.35	2016.236	19:39:44
TA.O17K	279.6	98.1	40	29	54	0.75	0.55	1.05	2016.153	22:56:01
TA.O17K	261.3	98.2	43	35	52	0.90	0.75	1.10	2016.161	04:13:08
TA.O17K	279.6	98.1	38	29	52	0.80	0.60	1.05	2016.153	22:56:01
TA.O17K	261.3	98.2	43	35	52	0.90	0.75	1.05	2016.161	04:13:08
TA.O17K	258.1	91.5	18	5	41	0.75	0.45	1.25	2016.236	19:39:44
TA.O17K	277.9	99.0	44	31	54	0.90	0.70	1.15	2017.225	03:08:11
TA.O18K	259.7	92.5	28	21	33	1.90	1.70	2.15	2016.236	19:39:44
TA.O19K	100.6	94.5	27	21	33	0.65	0.45	0.90	2015.330	05:45:18
TA.O22K	104.5	92.4	-5	-17	-1	0.65	0.45	0.85	2015.330	05:45:18
TA.O22K	286.3	101.5	-6	-15	1	1.15	0.95	1.35	2016.153	22:56:01
TA.O22K	286.3	101.5	-2	-7	1	1.15	1.00	1.30	2016.153	22:56:01

TA.O22K	284.6	102.4	-15	-23	-11	0.75	0.65	0.90	2017.225	03:08:11
TA.O28M	114.5	102.0	-2	-11	3	0.75	0.60	0.95	2016.217	14:15:12
TA.O28M	114.5	102.0	-2	-11	3	0.75	0.60	0.90	2016.217	14:15:12
TA.O28M	121.4	109.0	-27	-39	-15	0.85	0.60	1.10	2016.325	20:57:44
TA.O28M	111.2	100.3	-15	-25	-11	0.50	0.40	0.55	2017.052	14:09:04
TA.O28M	116.3	102.1	-24	-35	-13	2.00	1.55	2.45	2017.105	08:19:42
TA.O28M	213.6	97.5	4	-19	19	0.85	0.45	1.25	2017.180	07:03:11
TA.O29M	288.1	105.6	-34	-52	-17	1.25	0.80	1.70	2016.293	00:26:01
TA.O30N	276.5	101.9	-38	-46	-35	0.65	0.60	0.75	2016.236	19:39:44
TA.O30N	298.9	107.6	-31	-41	-21	0.70	0.55	0.85	2016.153	22:56:01
TA.O30N	277.2	92.6	-35	-46	-29	0.80	0.70	0.95	2016.159	19:15:16
TA.O30N	276.5	101.9	-40	-46	-35	0.65	0.60	0.75	2016.236	19:39:44
TA.O30N	279.7	87.9	-38	-54	-27	1.00	0.70	1.25	2016.267	22:53:10
TA.O30N	124.6	107.3	-15	-29	-3	0.80	0.60	0.95	2016.325	20:57:44
TA.O30N	275.6	101.5	-50	-62	-43	0.70	0.55	0.85	2016.340	01:13:05
TA.O30N	114.7	98.5	-1	-15	5	0.60	0.45	0.80	2017.052	14:09:04
TA.O30N	297.2	108.5	-7	-17	-3	0.95	0.80	1.10	2017.225	03:08:11
TA.P17K	280.1	98.5	36	29	43	1.35	1.10	1.65	2016.153	22:56:01
TA.P17K	280.1	98.5	36	29	43	1.30	1.10	1.60	2016.153	22:56:01
TA.P17K	258.7	91.7	25	17	33	1.05	0.85	1.20	2016.236	19:39:44
TA.P18K	99.9	94.8	32	25	39	0.75	0.55	0.95	2015.330	05:45:18
TA.P18K	281.2	99.1	37	33	39	1.60	1.45	1.80	2016.153	22:56:01
TA.P18K	281.2	99.1	35	31	39	1.60	1.40	1.80	2016.153	22:56:01
TA.P18K	259.7	92.4	42	33	48	1.80	1.55	2.05	2016.236	19:39:44
TA.P29M	116.7	100.4	-23	-33	-15	1.60	1.30	1.90	2016.217	14:15:12
TA.P29M	274.8	101.2	-47	-60	-41	0.65	0.55	0.80	2016.236	19:39:44
TA.P29M	274.8	101.2	-49	-58	-46	0.70	0.60	0.80	2016.236	19:39:44
TA.P29M	273.9	100.8	-52	-64	-50	1.50	1.25	1.75	2016.340	01:13:05
TA.P30M	275.6	101.6	-68	-76	-68	1.60	1.40	1.80	2016.236	19:39:44
TA.P32M	126.8	105.7	5	-3	13	2.40	1.95	2.85	2016.325	20:57:44
TA.P32M	118.6	85.5	-25	-31	-21	0.90	0.80	1.00	2016.353	13:30:11
TA.P32M	116.8	96.9	-25	-39	-11	1.00	0.70	1.30	2017.052	14:09:04
TA.P32M	236.0	88.0	-74	-92	-60	0.55	0.45	0.75	2017.129	13:52:11
TA.P33M	119.4	85.4	-43	-54	-39	1.45	1.25	1.60	2016.353	13:30:11
TA.P33M	236.8	88.7	3	-9	17	0.85	0.65	1.10	2017.129	13:52:11
TA.P33M	222.4	92.8	78	74	88	1.45	1.20	1.75	2017.168	22:26:03
TA.POKR	207.5	96.9	89	80	94	1.25	0.95	1.55	2013.116	06:53:29
TA.POKR	279.7	105.5	36	21	54	1.65	1.00	2.45	2013.164	16:47:23
TA.POKR	209.6	110.9	88	78	92	1.10	0.90	1.35	2013.202	05:09:32
TA.POKR	207.7	99.0	-86	-94	-84	1.60	1.30	1.95	2013.224	04:16:48
TA.POKR	209.0	96.3	-19	-29	-13	0.75	0.60	0.95	2013.240	02:54:42
TA.POKR	261.8	93.9	50	41	56	1.75	1.35	2.05	2013.335	01:24:14
TA.POKR	209.6	94.8	78	70	86	1.30	1.05	1.50	2014.085	03:29:37
TA.POKR	110.0	103.3	84	74	92	1.60	1.10	2.15	2014.093	02:43:17
TA.POKR	205.0	98.3	-85	-92	-82	1.35	1.00	1.65	2014.184	19:50:05
TA.POKR	116.8	113.9	-87	-96	-80	1.10	0.70	1.55	2014.235	22:32:24
TA.POKR	208.4	87.9	-70	-76	-68	1.65	1.00	2.45	2014.305	18:57:22
TA.POKR	267.0	96.6	57	48	66	1.20	0.90	1.45	2015.058	13:45:05
TA.POKR	207.4	94.7	-85	-92	-82	1.65	1.35	2.00	2015.218	23:59:45
TA.POKR	206.5	99.0	78	68	88	1.50	1.20	1.80	2015.236	09:41:26

TA.POKR	267.3	86.7	35	29	41	1.40	1.20	1.55	2015.259	07:40:60
TA.POKR	262.0	90.8	42	31	56	0.95	0.75	1.20	2015.343	10:21:50
TA.POKR	289.2	101.1	67	54	80	0.80	0.60	1.05	2016.153	22:56:01
TA.POKR	267.1	87.2	29	15	43	1.20	0.75	1.75	2016.159	19:15:16
TA.POKR	267.0	96.6	49	41	60	0.95	0.75	1.15	2016.236	19:39:44
TA.POKR	287.6	102.1	60	48	70	0.60	0.50	0.75	2017.225	03:08:11
TA.Q16K	199.3	98.2	-11	-19	-7	0.65	0.55	0.75	2016.245	16:37:58
TA.Q17K	261.4	95.4	41	29	54	1.50	1.05	1.95	2016.364	22:30:18
TA.Q18K	262.9	99.1	43	35	50	1.90	1.60	2.20	2016.161	04:13:08
TA.Q18K	259.0	91.9	27	19	33	1.80	1.55	2.00	2016.340	01:13:05
TA.Q19K	282.5	100.0	40	35	48	2.05	1.90	2.20	2016.153	22:56:01
TA.Q19K	282.5	100.0	40	37	48	2.05	1.90	2.15	2016.153	22:56:01
TA.Q19K	280.8	100.8	43	37	50	2.20	2.00	2.35	2017.225	03:08:11
TA.Q20K	283.5	100.7	82	62	90	0.80	0.40	1.25	2016.153	22:56:01
TA.Q23K	208.3	89.9	78	66	90	0.50	0.35	0.70	2015.218	23:59:45
TA.Q32M	128.0	104.7	-14	-25	-5	0.95	0.75	1.15	2016.325	20:57:44
TA.Q32M	237.3	88.2	-53	-70	-50	0.65	0.45	0.95	2017.129	13:52:11
TA.R17K	260.9	95.0	33	19	48	0.90	0.60	1.15	2016.364	22:30:18
TA.R17K	278.2	99.6	38	31	46	1.35	1.05	1.65	2017.225	03:08:11
TA.R18K	279.8	100.6	58	48	68	0.80	0.65	0.95	2017.225	03:08:11
TA.R32K	283.3	92.9	-53	-62	-50	1.45	1.15	1.75	2017.010	06:13:47
TA.R33M	127.9	98.8	2	-9	11	1.65	1.30	2.05	2016.207	17:26:50
TA.R33M	128.9	104.4	3	-13	17	1.00	0.70	1.35	2016.325	20:57:44
TA.R33M	224.0	92.8	-84	-106	-70	0.45	0.30	0.65	2017.168	22:26:03
TA.S32K	116.3	96.3	-20	-27	-15	1.30	1.10	1.55	2017.052	14:09:04
TA.T35M	224.5	91.4	63	58	72	1.55	1.15	1.90	2017.168	22:26:03
TA.TCOL	260.3	92.7	44	33	58	1.55	1.05	2.20	2012.345	16:53:09
TA.TCOL	268.2	89.9	26	19	35	1.80	1.45	2.10	2012.352	09:16:31
TA.TCOL	207.1	96.6	-85	-92	-84	1.65	1.45	1.85	2013.116	06:53:29
TA.TCOL	260.0	93.2	44	39	52	2.10	1.75	2.45	2013.224	00:53:44
TA.TCOL	207.3	98.7	-81	-90	-80	1.50	1.15	1.80	2013.224	04:16:48
TA.TCOL	223.4	85.7	-77	-86	-76	1.25	1.10	1.40	2014.001	16:03:30
TA.TCOL	278.3	102.7	32	27	39	1.35	1.10	1.60	2014.025	05:14:21
TA.TCOL	209.3	94.5	-5	-29	7	0.70	0.40	1.05	2014.085	03:29:37
TA.TCOL	208.6	87.8	-79	-88	-76	1.30	1.05	1.50	2014.202	14:54:41
TA.TCOL	110.3	96.7	-84	-90	-84	1.95	1.45	2.40	2014.236	23:21:46
TA.TCOL	266.5	96.4	35	29	39	1.10	0.95	1.25	2015.058	13:45:05
TA.TCOL	207.1	94.4	-85	-90	-82	1.55	1.40	1.75	2015.218	23:59:45
TA.TCOL	206.1	98.7	-88	-94	-84	1.45	1.20	1.70	2015.236	09:41:26
TA.TCOL	266.9	86.5	31	23	37	1.60	1.30	1.90	2015.259	07:40:60
TA.TCOL	261.6	90.6	30	23	37	1.40	1.20	1.65	2015.343	10:21:50
TA.TCOL	268.4	99.8	34	27	43	1.15	0.90	1.45	2016.043	10:02:25
TA.TCOL	205.2	98.0	81	72	90	1.40	1.20	1.65	2016.158	02:35:23
TA.TCOL	266.6	96.5	33	29	39	1.00	0.85	1.15	2016.236	19:39:44
TA.TCOL	103.8	104.9	72	62	80	2.35	2.10	2.55	2017.052	14:09:04
TA.TCOL	209.4	92.5	-83	-90	-82	1.50	1.35	1.70	2017.168	22:26:03
TA.TCOL	287.2	102.0	45	39	54	1.10	0.85	1.35	2017.225	03:08:11
TA.TCOL	209.4	86.2	-77	-84	-76	1.25	1.10	1.40	2017.231	02:00:52
TA.TOLK	292.1	95.2	44	39	54	1.40	1.05	1.75	2011.248	17:55:11
TA.TOLK	207.7	92.8	58	48	68	0.70	0.50	0.90	2011.258	19:31:04

TA.TOLK	272.0	100.8	44	33	56	0.80	0.60	1.00	2011.286	03:16:30
TA.TOLK	292.1	95.2	50	48	58	0.95	0.80	1.10	2012.175	04:34:53
TA.TOLK	293.8	96.1	46	37	56	1.25	0.90	1.80	2012.207	00:27:45
TA.TOLK	205.9	99.7	46	43	50	1.05	0.95	1.20	2013.116	06:53:29
TA.TOLK	204.2	88.6	54	43	72	0.85	0.55	1.25	2013.131	20:46:58
TA.TOLK	205.4	93.8	55	46	68	0.70	0.55	0.95	2013.143	17:19:05
TA.TOLK	204.4	91.2	58	54	68	0.65	0.55	0.80	2013.143	21:07:47
TA.TOLK	278.7	104.1	41	29	58	0.75	0.55	1.00	2013.164	16:47:23
TA.TOLK	206.2	101.7	44	41	54	1.25	0.90	1.60	2013.224	04:16:48
TA.TOLK	207.3	99.0	45	43	48	1.20	1.05	1.30	2013.240	02:54:42
TA.TOLK	297.4	95.7	57	48	72	1.05	0.75	1.40	2014.138	01:02:29
TA.TOLK	203.5	101.2	51	43	62	0.85	0.65	1.10	2014.184	19:50:05
TA.TOLK	207.0	90.9	57	50	66	0.65	0.50	0.80	2014.202	14:54:41
TA.TOLK	206.4	90.7	56	46	72	0.50	0.40	0.75	2014.305	18:57:22
TA.TOLK	265.4	96.0	41	27	56	0.55	0.45	0.70	2015.058	13:45:05
TA.TOLK	290.1	98.5	50	39	66	0.80	0.55	1.15	2015.062	10:37:31
TA.TOLK	286.1	99.0	52	48	60	0.90	0.80	1.05	2015.135	20:26:56
TA.TOLK	205.7	97.4	44	35	56	0.95	0.55	1.35	2015.218	23:59:45
TA.TOLK	204.9	101.8	45	41	52	1.15	0.95	1.35	2015.236	09:41:26
TA.TOLK	267.4	99.3	37	23	54	0.65	0.45	0.85	2016.043	10:02:25
TA.TOLK	279.2	102.4	53	31	76	0.70	0.40	1.05	2016.097	14:45:30
TA.TOLK	287.8	99.2	50	46	56	0.90	0.75	1.00	2016.153	22:56:01
TA.TOLK	263.5	92.4	44	33	52	0.75	0.60	0.85	2016.157	16:25:34
TA.TOLK	269.7	102.2	40	25	54	0.80	0.60	1.05	2016.161	04:13:08
TA.TOLK	287.8	99.2	52	46	58	0.85	0.70	0.95	2016.153	22:56:01
TA.TOLK	269.7	102.2	38	23	54	0.85	0.55	1.10	2016.161	04:13:08
TA.TOLK	265.5	96.0	31	21	46	0.65	0.50	0.80	2016.236	19:39:44
TA.TOLK	264.6	95.7	39	29	50	0.65	0.55	0.75	2016.340	01:13:05
TA.TOLK	286.3	100.3	54	50	64	0.85	0.70	1.00	2017.225	03:08:11
TA.TOLK	207.7	89.1	54	48	62	0.60	0.45	0.70	2017.231	02:00:52
TA.TOLK	206.9	90.9	55	46	66	0.60	0.45	0.80	2016.268	21:28:42
TA.U33K	117.6	95.0	-26	-43	-13	0.80	0.55	1.10	2017.052	14:09:04
TA.V35K	118.9	93.9	-21	-39	-5	1.15	0.75	1.55	2017.052	14:09:04
XV.F1TN	104.8	93.2	57	46	72	2.58	1.86	3.26	2015.330	05:45:18
XV.F2TN	208.2	85.8	62	52	80	0.60	0.42	0.80	2017.231	02:00:52
XV.F3TN	221.9	86.2	-70	-88	-64	1.02	0.62	1.62	2015.293	21:52:02
XV.F3TN	222.5	85.8	86	78	94	0.83	0.64	1.02	2016.094	08:23:54
XV.F3TN	208.2	85.8	66	58	78	0.85	0.67	1.02	2017.231	02:00:52
XV.F5MN	221.8	86.2	-84	-114	-66	0.60	0.30	1.04	2015.293	21:52:02
XV.F5MN	104.8	93.3	61	56	66	1.64	1.44	1.86	2015.330	05:45:18
XV.F6TP	104.5	93.4	68	62	78	1.60	1.24	1.96	2015.330	05:45:18
XV.F6TP	287.2	100.3	41	33	52	1.02	0.72	1.34	2016.153	22:56:01
XV.F6TP	265.2	86.3	45	41	48	1.74	1.60	1.86	2016.159	19:15:16
XV.F6TP	285.6	101.3	56	50	60	1.14	0.98	1.28	2017.225	03:08:11
XV.F7TV	104.2	93.5	48	43	56	1.60	1.40	1.78	2015.330	05:45:18
XV.F7TV	259.8	89.8	44	33	54	1.36	1.04	1.72	2015.343	10:21:50
XV.F7TV	266.6	99.0	47	39	56	0.92	0.80	1.06	2016.043	10:02:25
XV.F7TV	287.0	100.2	53	46	64	0.88	0.72	1.04	2016.153	22:56:01
XV.F7TV	264.0	95.3	48	39	56	1.00	0.84	1.18	2016.340	01:13:05
XV.F7TV	102.1	105.7	48	43	56	1.74	1.54	1.94	2017.052	14:09:04

XV.F7TV	285.3	101.2	51	43	62	0.94	0.76	1.12	2017.225	03:08:11
XV.F7TV	207.6	85.7	88	80	92	0.60	0.48	0.72	2017.231	02:00:52
XV.F8KN	104.1	93.5	56	50	68	1.70	1.36	2.04	2015.330	05:45:18
XV.F8KN	286.8	100.2	81	66	88	0.68	0.46	0.98	2016.153	22:56:01
XV.F8KN	286.8	100.2	81	70	88	0.76	0.56	0.98	2016.153	22:56:01
XV.F8KN	206.5	87.4	53	48	64	1.04	0.80	1.26	2016.268	21:28:42
XV.F8KN	207.6	91.9	64	54	76	0.86	0.68	1.06	2017.168	22:26:03
XV.F8KN	285.2	101.2	77	70	84	0.76	0.62	0.92	2017.225	03:08:11
XV.FAPT	221.9	86.0	82	74	88	1.04	0.88	1.20	2015.293	21:52:02
XV.FAPT	104.9	93.1	75	66	82	1.52	1.24	1.84	2015.330	05:45:18
XV.FAPT	260.5	90.1	41	33	50	2.02	1.76	2.28	2015.343	10:21:50
XV.FAPT	267.2	99.3	45	35	56	1.84	1.72	1.96	2016.043	10:02:25
XV.FAPT	222.9	85.4	87	82	92	0.92	0.78	1.06	2016.098	03:32:54
XV.FAPT	221.9	85.8	84	80	88	1.04	0.94	1.12	2017.129	13:52:11
XV.FAPT	286.0	101.6	60	52	68	1.20	0.96	1.44	2017.225	03:08:11
XV.FAPT	208.3	85.6	84	82	88	1.16	1.10	1.22	2017.231	02:00:52
XV.FAPT	207.3	87.3	87	82	90	0.78	0.64	0.94	2016.268	21:28:42
XV.FNN1	204.9	98.1	79	72	88	1.28	1.00	1.54	2015.236	09:41:26
XV.FNN2	208.1	85.6	72	64	84	0.98	0.84	1.14	2017.231	02:00:52
XV.FNN2	104.6	93.3	83	74	90	2.36	1.66	2.96	2015.330	05:45:18
XV.FNN3	221.6	85.7	66	60	74	0.66	0.52	0.84	2017.129	13:52:11
XV.FNN4	208.0	91.9	74	68	86	1.40	1.16	1.64	2017.168	22:26:03
XV.FNN5	207.9	85.6	74	70	78	1.08	0.98	1.16	2017.231	02:00:52
XV.FPAP	265.4	95.9	43	37	50	2.08	1.92	2.22	2015.058	13:45:05
XV.FPAP	265.7	86.1	50	41	58	2.28	2.08	2.48	2015.076	22:12:29
XV.FPAP	107.0	102.3	63	52	74	1.74	1.32	2.14	2015.082	04:51:37
XV.FPAP	205.0	98.2	71	64	78	1.46	1.26	1.66	2015.236	09:41:26
XV.FPAP	104.9	93.1	79	70	88	1.52	1.12	1.90	2015.330	05:45:18
XV.FPAP	260.5	90.1	50	41	62	2.20	1.88	2.48	2015.343	10:21:50
XV.FPAP	265.6	86.5	40	31	48	2.42	2.18	2.66	2016.159	19:15:16
XV.FPAP	265.6	86.5	40	33	48	2.38	2.20	2.58	2016.159	19:15:16
XV.FPAP	264.6	95.5	35	23	48	1.80	1.52	2.10	2016.340	01:13:05
XV.FPAP	268.1	99.2	52	48	62	1.94	1.78	2.10	2016.364	22:30:18
XV.FPAP	206.5	98.7	84	76	92	1.44	1.14	1.74	2017.180	07:03:11
XV.FPAP	208.3	85.7	76	74	84	1.22	1.14	1.30	2017.231	02:00:52
XV.FTGH	205.3	98.3	75	68	86	1.52	1.26	1.78	2015.236	09:41:26
XV.FTGH	105.1	93.1	87	80	92	1.78	1.22	2.50	2015.330	05:45:18
XV.FTGH	260.7	90.2	51	46	56	2.04	1.86	2.22	2015.343	10:21:50
XV.FTGH	265.7	96.0	52	46	60	1.68	1.48	1.90	2016.236	19:39:44
XV.FTGH	222.2	85.9	82	74	90	0.88	0.70	1.04	2017.129	13:52:11
XV.FTGH	208.6	92.1	77	66	88	1.36	1.12	1.62	2017.168	22:26:03
XV.FTGH	286.2	101.7	50	46	60	0.98	0.78	1.18	2017.225	03:08:11
XV.FTGH	208.5	85.8	67	62	74	0.96	0.84	1.06	2017.231	02:00:52
YG.DEN1	222.0	89.2	-20	-35	-3	0.72	0.40	1.08	2016.202	15:13:16
YG.DEN4	106.4	92.9	62	31	92	0.16	0.12	0.36	2016.353	13:30:11
YG.DEN4	104.5	104.3	34	23	80	0.28	0.12	0.56	2017.052	14:09:04
YG.DEN4	208.8	86.5	-83	-94	-78	0.36	0.24	0.44	2016.268	21:28:42
YG.DEN5	220.1	88.7	-2	-23	15	0.48	0.32	0.68	2016.202	15:13:16
YG.DEN5	266.2	96.3	26	19	39	0.52	0.40	0.64	2016.236	19:39:44
YG.DEN5	265.4	95.9	23	13	35	0.72	0.52	0.96	2016.340	01:13:05

YG.DEN5	261.3	94.0	31	15	50	0.92	0.64	1.24	2016.356	00:17:15
YG.DEN5	268.8	99.6	25	17	37	0.56	0.40	0.68	2016.364	22:30:18
YG.DEN5	222.9	85.1	-21	-33	-3	0.40	0.24	0.60	2017.129	13:52:11
YG.GLN2	209.8	85.7	68	56	82	0.52	0.40	0.68	2016.268	21:28:42
YG.GLN3	267.7	87.3	38	21	56	0.48	0.32	0.64	2016.159	19:15:16
YG.GLN4	107.0	92.3	45	33	66	0.40	0.24	0.56	2016.353	13:30:11
YG.GLN4	267.1	86.9	31	21	41	0.44	0.36	0.56	2016.159	19:15:16
YG.GLN4	106.4	92.5	70	48	88	0.28	0.16	0.48	2016.353	13:30:11
YG.GLN5	209.4	85.5	71	62	86	0.52	0.44	0.60	2016.268	21:28:42
YG.LKLO	209.7	85.9	90	68	100	0.48	0.28	0.72	2016.268	21:28:42
YG.MCR1	268.9	97.7	-61	-68	-58	1.16	1.04	1.28	2016.236	19:39:44
YG.MCR2	271.4	101.1	27	23	31	1.00	0.88	1.12	2016.364	22:30:18
YG.NEB1	227.0	86.1	-7	-21	7	0.68	0.52	0.92	2017.129	13:52:11
YG.RH01	267.4	96.9	17	5	43	0.56	0.24	0.96	2016.340	01:13:05
YG.RH04	222.5	89.0	-6	-25	13	0.56	0.32	0.80	2016.202	15:13:16
YG.RH06	222.5	88.8	19	9	27	0.72	0.48	0.96	2016.202	15:13:16
YG.RH07	267.6	97.0	42	29	54	0.88	0.68	1.08	2016.340	01:13:05
YG.RH07	111.3	105.9	-27	-54	-1	0.36	0.20	0.56	2017.049	12:10:15
YG.RH08	222.7	88.5	-13	-29	1	0.76	0.48	1.08	2016.202	15:13:16
YG.RH09	110.1	104.6	-26	-35	-21	0.68	0.56	0.80	2016.217	14:15:12
YG.RH09	268.6	97.5	35	27	43	0.68	0.56	0.84	2016.236	19:39:44
YG.RH09	108.5	91.5	-19	-39	-9	0.36	0.24	0.44	2016.353	13:30:11
YG.RH09	106.8	102.9	-29	-37	-25	0.68	0.60	0.80	2017.052	14:09:04
YG.RH09	112.0	104.7	-28	-41	-21	0.72	0.56	0.88	2017.105	08:19:42
YG.RH10	106.8	102.9	-23	-35	-17	0.32	0.28	0.40	2017.052	14:09:04
YG.RH14	107.9	91.6	-8	-19	-3	0.92	0.68	1.12	2016.353	13:30:11
YG.RH15	107.7	91.7	-10	-21	-7	0.72	0.56	0.84	2016.353	13:30:11
YG.TOK1	108.8	91.6	-23	-39	-13	0.52	0.40	0.68	2016.353	13:30:11
YG.TOK2	107.0	102.9	-53	-60	-50	0.52	0.40	0.64	2017.052	14:09:04
YG.TOK2	223.4	89.4	19	11	25	0.72	0.56	0.84	2016.202	15:13:16
YG.TOK3	226.0	85.6	6	-5	15	0.68	0.52	0.80	2017.129	13:52:11
ZE.GOOS	266.0	98.8	-32	-46	-23	0.78	0.54	1.02	2016.043	10:02:25
ZE.GOOS	286.3	101.2	-26	-35	-19	0.86	0.72	1.00	2016.153	22:56:01
ZE.GOOS	267.9	101.9	-60	-74	-52	0.94	0.68	1.18	2016.161	04:13:08
ZE.GOOS	267.0	98.7	-53	-74	-35	0.54	0.34	0.74	2016.364	22:30:18
ZE.HLC1	202.9	89.4	57	46	74	0.44	0.32	0.58	2015.218	23:59:45
ZE.HLC1	202.6	100.6	67	58	78	0.52	0.42	0.64	2016.245	16:37:58
ZE.HLC2	113.7	113.3	-28	-39	-23	2.22	1.94	2.52	2015.264	17:40:01
ZE.HLC2	261.6	93.6	36	29	41	2.04	1.66	2.36	2016.236	19:39:44
ZE.HLC2	115.2	116.5	57	50	66	1.64	1.30	2.02	2016.309	16:20:44
ZE.HLC3	201.4	93.8	61	35	90	0.66	0.26	1.06	2015.236	09:41:26
ZE.HLC3	101.5	94.1	79	74	84	0.70	0.58	0.84	2015.330	05:45:18
ZE.HLC3	262.9	97.0	35	25	43	1.58	1.22	2.02	2016.043	10:02:25
ZE.HLC3	101.8	95.5	80	68	88	0.54	0.36	0.74	2015.328	22:45:38
ZE.HLC3	101.7	95.0	78	64	86	0.56	0.38	0.74	2015.328	22:50:54
ZE.HLC3	101.6	94.9	76	70	82	0.78	0.62	0.92	2016.353	13:30:11
ZE.HLC3	263.9	97.0	44	37	50	1.46	1.24	1.72	2016.364	22:30:18
ZE.HLC5	256.2	87.1	-66	-86	-50	1.24	0.74	1.74	2015.343	10:21:50
ZE.HLC5	282.4	99.4	-48	-54	-43	0.80	0.66	0.90	2016.153	22:56:01
ZE.HOLG	205.3	89.4	-31	-39	-27	0.62	0.54	0.70	2015.218	23:59:45

ZE.HOPE	104.6	92.4	-31	-62	-5	0.28	0.18	0.50	2015.330	05:45:18
ZE.HOPE	282.4	99.4	-34	-43	-29	0.92	0.78	1.06	2016.153	22:56:01
ZE.JUDD	102.9	93.5	-39	-46	-35	0.54	0.46	0.60	2015.330	05:45:18
ZE.JUDD	103.1	94.4	-43	-52	-37	0.54	0.44	0.64	2015.328	22:50:54
ZE.KALN	203.1	100.8	89	74	96	0.42	0.26	0.60	2016.245	16:37:58
ZE.LTUW	263.6	94.7	28	21	31	0.78	0.66	0.90	2016.236	19:39:44
ZE.LTUW	262.8	94.3	31	27	35	0.88	0.78	0.98	2016.340	01:13:05
ZE.LTUW	266.0	98.2	28	25	35	0.74	0.64	0.84	2016.364	22:30:18
ZE.LTUW	266.8	101.4	27	19	35	0.96	0.74	1.20	2016.161	04:13:08
ZE.LTUW	263.6	94.7	44	41	48	0.68	0.64	0.74	2016.236	19:39:44
ZE.LTUX	204.3	89.5	-46	-58	-19	0.46	0.20	0.86	2015.218	23:59:45
ZE.LTUY	204.1	89.5	-32	-46	-15	0.40	0.26	0.52	2015.218	23:59:45
ZE.MPEN	204.7	90.1	-21	-31	-17	0.72	0.58	0.86	2015.218	23:59:45
ZE.MPEN	285.6	101.1	-48	-62	-41	0.62	0.44	0.84	2016.153	22:56:01
ZE.MPEN	266.3	98.3	30	15	56	0.34	0.20	0.52	2016.364	22:30:18
ZE.NNIL	102.9	93.2	-57	-68	-43	0.62	0.34	0.88	2015.330	05:45:18
ZE.SALA	102.8	93.4	-41	-54	-31	0.88	0.66	1.10	2015.330	05:45:18
ZE.SOLD	266.6	101.3	37	23	52	0.84	0.62	1.08	2016.161	04:13:08
ZE.WFLS	261.7	96.4	46	25	64	0.72	0.44	1.04	2016.043	10:02:25
ZE.WFLS	260.2	92.9	32	23	43	1.04	0.80	1.26	2016.236	19:39:44
ZE.WFLS	259.3	92.5	31	21	41	0.80	0.62	1.00	2016.340	01:13:05
ZE.WFLW	200.6	89.4	-27	-54	-1	0.50	0.28	0.82	2015.218	23:59:45
ZE.WFLW	199.8	93.8	-4	-23	3	0.84	0.48	1.28	2015.236	09:41:26
ZE.WFLW	111.9	114.4	-34	-41	-33	1.34	1.20	1.50	2015.264	17:40:01
ZE.WFLW	261.4	96.2	37	29	46	0.78	0.64	0.94	2016.043	10:02:25
ZE.WFLW	263.2	99.3	23	15	31	0.84	0.70	1.04	2016.161	04:13:08
ZE.WFLW	259.8	92.7	28	21	33	0.88	0.74	1.02	2016.236	19:39:44
ZE.WFLW	259.0	92.3	33	23	43	0.80	0.62	1.00	2016.340	01:13:05
*	*	*	*	*	*	*	*	*	*	*
AK.BRLK	105.4	89.8	-18	-43	1	0.80	0.57	1.11	21641	N/A
AK.BRLK	261.4	93.6	29	6	72	0.45	0.22	0.70	29710	N/A
AK.BRLK	266.3	87.8	52	39	65	0.75	0.53	0.99	30124	N/A
AK.BRLK	286.0	99.9	-54	-72	-11	0.44	0.27	0.92	11016	N/A
AK.BRLK	257.0	89.7	14	5	26	0.68	0.47	0.92	12397	N/A
AK.CNP	264.9	97.5	25	9	44	0.52	0.36	0.70	7881	N/A
AK.CNP	257.0	89.4	27	9	58	0.52	0.34	0.80	12397	N/A
AK.FIB	282.8	99.7	-39	-50	-26	0.85	0.69	0.99	17938	N/A
AK.FIB	266.1	86.9	56	45	67	0.85	0.68	1.07	19922	N/A
AK.FIB	258.0	90.8	56	41	71	0.40	0.34	0.47	5478	N/A
AK.FIB	215.9	88.7	4	-27	31	0.55	0.30	0.93	9526	N/A
AK.FIB	290.2	100.7	-19	-35	-2	1.35	1.06	1.66	10811	N/A
AK.FIB	257.8	90.0	39	20	68	0.55	0.36	0.82	12397	N/A
AK.HOM	285.7	99.9	-50	-64	-33	0.66	0.47	0.87	11016	N/A
AK.KDAK	280.1	99.2	64	45	77	0.55	0.42	0.68	17938	N/A
AK.KDAK	264.2	85.4	66	39	76	0.70	0.38	1.05	19922	N/A
AK.KDAK	286.5	99.5	64	29	86	0.35	0.20	0.54	12445	N/A
AK.KDAK	264.9	87.3	11	-2	33	0.60	0.33	0.99	13994	N/A
AK.KDAK	272.6	102.8	16	9	29	0.85	0.47	1.34	15798	N/A
AK.KDAK	291.2	96.7	62	26	99	0.45	0.32	0.61	20645	N/A
AK.KDAK	263.5	96.7	24	5	54	0.35	0.20	0.65	7881	N/A

AK.KDAK	284.6	99.9	60	23	86	0.35	0.22	0.67	11016	N/A
AK.KDAK	274.4	102.0	64	53	71	0.65	0.54	0.76	9990	N/A
AK.MID	207.7	89.2	39	31	52	0.95	0.50	1.38	27319	N/A
AK.MID	206.9	92.9	58	36	91	0.55	0.29	0.90	24171	N/A
AK.OHAK	104.4	107.2	90	65	101	0.70	0.32	1.18	16095	N/A
AK.OHAK	281.0	101.8	61	43	79	0.65	0.54	0.81	20928	N/A
AK.OHAK	282.9	101.1	39	28	54	0.90	0.73	1.06	4539	N/A
AK.OHAK	273.7	101.6	64	56	71	0.74	0.64	0.83	9990	N/A
AK.OHAK	283.9	99.6	66	48	85	0.66	0.54	0.82	11016	N/A
AK.OHAK	255.2	87.9	69	59	75	0.96	0.53	1.31	12397	N/A
AK.PMR	283.8	100.1	-57	-62	-53	1.55	1.33	1.72	17938	N/A
AK.PMR	208.1	87.0	-51	-58	-44	1.65	1.37	1.93	6797	N/A
AK.PMR	288.1	101.4	-56	-60	-51	1.70	1.44	1.95	9240	N/A
AK.PMR	292.0	99.4	-52	-57	-48	2.65	2.19	3.15	16580	N/A
AK.PMR	291.3	101.0	-52	-60	-40	1.85	1.18	2.68	10811	N/A
AK.PMR	267.7	89.2	25	17	34	1.25	0.95	1.56	16381	N/A
AK.PMR	264.4	86.7	44	22	76	0.40	0.22	0.64	9629	N/A
AK.PMR	287.9	101.8	-63	-72	-55	2.65	2.06	3.29	20788	N/A
AK.PMR	257.9	91.0	-70	-81	-60	1.70	1.48	1.91	27740	N/A
AK.PMR	267.0	98.8	-71	-84	-63	0.90	0.65	1.80	7881	N/A
AK.RC01	283.2	99.9	-42	-48	-36	1.10	1.01	1.15	17938	N/A
AK.RC01	266.5	87.2	34	20	48	0.45	0.37	0.62	19922	N/A
AK.RC01	293.4	99.0	-22	-36	-7	1.80	1.49	2.14	7996	N/A
AK.RC01	290.7	98.8	-27	-38	-17	1.15	0.99	1.29	8426	N/A
AK.RC01	287.5	101.3	-49	-56	-40	1.30	1.13	1.46	9240	N/A
AK.RC01	290.9	99.1	-36	-46	-25	1.40	1.19	1.60	10010	N/A
AK.RC01	291.8	99.2	-28	-39	-17	1.50	1.25	1.73	11010	N/A
AK.RC01	289.6	99.8	-37	-46	-29	1.15	1.01	1.34	12445	N/A
AK.RC01	291.5	99.2	-30	-37	-22	1.20	1.04	1.34	12867	N/A
AK.RC01	295.3	97.5	-29	-45	-17	1.45	1.26	1.62	18495	N/A
AK.RC01	290.6	100.9	-29	-40	-19	1.25	1.03	1.42	10811	N/A
AK.RC01	276.8	104.3	-41	-55	-28	1.05	0.78	1.27	15720	N/A
AK.RC01	275.9	104.0	-40	-54	-27	0.95	0.73	1.19	15798	N/A
AK.RC01	267.5	101.4	-70	-92	-43	0.60	0.40	0.80	17158	N/A
AK.RC01	292.3	99.2	-36	-45	-27	1.55	1.34	1.79	17846	N/A
AK.RC01	218.3	88.3	71	54	103	0.55	0.29	0.97	7779	N/A
AK.RC01	278.5	101.3	-42	-54	-30	0.75	0.57	0.98	17630	N/A
AK.RC01	287.3	101.7	-31	-43	-19	1.25	1.05	1.50	20788	N/A
AK.RC01	285.0	101.7	-54	-64	-42	0.95	0.89	1.01	20853	N/A
AK.RC01	284.9	102.7	-42	-54	-29	1.30	1.08	1.51	20928	N/A
AK.RC01	286.8	101.4	-55	-70	-39	1.40	1.19	1.62	21497	N/A
AK.RC01	207.6	89.8	-34	-45	-24	1.10	0.93	1.32	22767	N/A
AK.RC01	285.2	102.6	-31	-44	-17	0.95	0.78	1.17	24159	N/A
AK.RC01	285.7	101.6	-61	-76	-44	1.05	0.90	1.26	224	N/A
AK.RC01	293.5	99.2	-36	-43	-28	1.60	1.37	1.80	7511	N/A
AK.RC01	106.5	89.7	-43	-57	-18	0.65	0.44	1.00	21641	N/A
AK.RC01	263.9	86.4	39	28	52	0.50	0.40	0.61	9629	N/A
AK.RC01	294.0	96.8	-71	-86	-9	1.10	0.98	1.44	20645	N/A
AK.RDJH	200.8	90.1	58	38	73	0.98	0.71	1.34	2424	N/A
AK.RDWB	202.0	94.0	52	43	66	0.80	0.46	1.16	5673	N/A

AK.SAW	258.6	91.4	86	77	97	1.90	1.73	2.07	27740	N/A
AK.SAW	288.2	102.3	-57	-61	-50	1.50	0.95	1.96	4539	N/A
AK.SAW	263.8	95.1	-59	-81	-26	0.40	0.23	0.72	29710	N/A
AK.SAW	279.1	103.6	-44	-57	-27	0.88	0.67	1.10	9990	N/A
AK.SKN	104.4	107.5	-75	-79	-71	1.30	0.83	1.71	16095	N/A
AK.SKN	255.8	90.0	2	-7	10	1.70	1.46	1.96	27740	N/A
AK.SKN	216.8	87.9	-10	-20	2	1.60	1.25	1.97	8382	N/A
AK.SKN	202.6	94.1	-14	-35	11	1.10	0.82	1.47	24171	N/A
AK.SPBG	256.1	89.9	2	-4	8	2.25	2.10	2.36	5478	N/A
AK.SPBG	202.8	95.6	39	26	53	0.90	0.67	1.12	10793	N/A
AK.SPBG	65.4	93.9	3	-22	30	0.85	0.53	1.21	22899	N/A
AK.SPBG	201.8	93.3	18	4	56	0.60	0.22	1.20	24171	N/A
AK.SPCG	258.5	87.2	37	28	46	2.35	2.02	2.68	20519	N/A
AK.SPCR	256.2	89.9	4	-4	12	2.15	2.02	2.31	5478	N/A
AK.SPCR	105.2	88.2	-6	-16	0	1.25	0.78	1.86	22812	N/A
AK.SSN	203.2	93.8	-60	-65	-52	0.95	0.70	1.17	24171	N/A
AK.SSN	261.7	93.9	-48	-61	-34	0.75	0.45	0.97	29710	N/A
AK.SSN	214.0	90.0	-39	-58	12	1.04	0.60	1.62	931	N/A
AK.SSN	202.5	91.3	-66	-73	-53	1.00	0.56	1.48	2424	N/A
AK.SSN	206.6	88.0	-39	-54	13	0.36	0.13	0.77	36	N/A
AK.SWD	294.2	97.3	-51	-65	-40	0.70	0.53	0.81	20645	N/A
AK.SWD	283.3	100.3	-41	-67	-25	0.55	0.40	0.74	17938	N/A
AK.SWD	291.9	99.7	-37	-55	-17	0.70	0.59	0.90	11010	N/A
AK.SWD	282.1	104.0	-42	-60	-28	0.65	0.54	0.96	11995	N/A
AK.SWD	289.7	100.3	-45	-57	-32	0.60	0.49	0.70	12445	N/A
AK.SWD	291.5	99.8	-32	-48	-19	0.95	0.83	1.14	16580	N/A
AK.SWD	295.4	98.1	-44	-63	-22	0.65	0.49	0.80	18495	N/A
AK.SWD	290.7	101.4	-59	-88	-9	0.55	0.22	2.29	10811	N/A
AK.SWD	287.3	102.1	-33	-44	-25	1.10	0.88	1.30	20788	N/A
AK.SWD	285.0	103.1	-52	-66	-37	1.25	1.07	1.48	20928	N/A
AK.SWD	286.9	101.8	-56	-68	-44	1.05	0.93	1.22	21497	N/A
AK.SWD	286.8	102.3	-33	-51	-23	0.80	0.60	1.06	4539	N/A
AK.SWD	293.6	99.7	-39	-50	-28	1.20	1.02	1.38	7511	N/A
AK.SWD	106.7	89.3	-54	-63	-45	1.25	1.04	1.43	21641	N/A
AK.SWD	287.8	100.8	41	28	54	0.66	0.58	0.75	11016	N/A
XE.AND	207.0	99.0	85	73	97	1.40	1.24	1.56	448	N/A
XE.AND	115.0	116.0	83	60	102	0.80	0.57	1.09	528	N/A
XE.AND	209.0	93.0	-86	-103	-73	1.14	0.92	1.35	534	N/A
XE.AND	285.0	102.0	42	32	54	1.08	0.69	1.52	562	N/A
XE.ANT	262.0	87.0	42	29	55	1.76	1.41	2.12	410	N/A
XE.ANT	208.0	86.0	-25	-37	-10	0.66	0.50	0.84	421	N/A
XE.ANT	262.0	91.0	59	43	77	1.96	1.52	2.50	428	N/A
XE.ANT	206.0	97.0	-4	-33	21	0.44	0.31	0.60	448	N/A
XE.ANT	264.0	95.0	60	47	74	0.72	0.53	0.92	457	N/A
XE.ANT	285.0	113.0	72	70	75	1.38	1.04	1.66	525	N/A
XE.ANT	209.0	92.0	-3	-12	6	0.50	0.38	0.61	534	N/A
XE.ANT	285.0	102.0	73	47	95	0.64	0.48	0.90	551	N/A
XE.ANT	283.0	103.0	68	46	88	0.66	0.45	0.92	1069	N/A
XE.ANT	206.0	86.0	-23	-35	-7	0.64	0.42	0.87	1070	N/A
XE.BYR1	106.0	114.0	-32	-44	-20	0.70	0.60	0.80	604	N/A

XE.BYR1	107.0	103.0	-40	-50	-28	0.72	0.51	0.92	797	N/A
XE.BYR1	107.0	103.0	-36	-50	-12	0.66	0.39	1.00	19	N/A
XE.BYR1	108.0	100.0	-43	-52	-32	0.86	0.62	1.12	40	N/A
XE.BYR1	109.0	98.0	-41	-51	-24	0.74	0.43	1.10	28	N/A
XE.BYR1	204.0	95.0	-24	-32	-14	0.62	0.50	0.74	935	N/A
XE.BYR1	204.0	95.0	0	-12	11	0.62	0.51	0.73	938	N/A
XE.BYR1	204.0	94.0	-25	-35	-11	0.66	0.47	0.87	950	N/A
XE.BYR1	204.0	95.0	17	-5	35	0.64	0.49	0.77	1002	N/A
XE.BYR1	205.0	87.0	-22	-30	-14	0.88	0.76	1.00	31	N/A
XE.BYR1	205.0	95.0	-7	-12	-1	0.70	0.63	0.76	59	N/A
XE.BYR1	205.0	93.0	11	-20	40	0.68	0.49	0.85	1049	N/A
XE.BYR1	206.0	97.0	9	-14	28	0.58	0.45	0.69	448	N/A
XE.BYR1	206.0	86.0	-17	-29	-3	0.84	0.66	1.02	63	N/A
XE.BYR1	207.0	87.0	-5	-16	8	0.76	0.62	0.88	250	N/A
XE.BYR1	207.0	86.0	-15	-26	-2	0.88	0.73	1.01	421	N/A
XE.BYR1	208.0	85.0	-9	-32	24	0.70	0.39	1.06	1042	N/A
XE.BYR1	208.0	88.0	-19	-30	-7	0.84	0.67	0.99	951	N/A
XE.BYR1	208.0	91.0	-4	-13	6	0.82	0.70	0.94	534	N/A
XE.BYR1	217.0	90.0	-14	-23	-4	1.06	0.89	1.23	1022	N/A
XE.BYR1	256.0	90.0	47	37	57	0.96	0.85	1.06	62	N/A
XE.BYR1	259.0	92.0	59	51	66	1.54	1.38	1.70	1062	N/A
XE.BYR1	264.0	95.0	49	37	61	0.92	0.81	1.02	457	N/A
XE.BYR1	265.0	92.0	57	49	66	1.42	1.22	1.62	577	N/A
XE.BYR1	266.0	89.0	62	47	76	1.36	1.09	1.64	593	N/A
XE.BYR1	267.0	90.0	46	32	61	1.30	1.10	1.51	921	N/A
XE.BYR1	269.0	97.0	35	24	46	0.76	0.69	0.85	158	N/A
XE.BYR1	275.0	101.0	75	65	83	0.82	0.66	0.96	64	N/A
XE.BYR1	280.0	103.0	78	64	91	0.76	0.59	0.94	757	N/A
XE.BYR1	281.0	102.0	-78	-85	-71	1.34	1.06	1.61	915	N/A
XE.BYR1	283.0	102.0	-85	-96	-75	1.26	1.00	1.52	557	N/A
XE.BYR1	283.0	102.0	89	83	94	0.90	0.76	1.07	164	N/A
XE.BYR1	284.0	102.0	-87	-98	-78	1.04	0.76	1.33	562	N/A
XE.BYR1	106.0	105.0	-47	-57	-37	1.02	0.75	1.28	886	N/A
XE.BYR1	205.0	86.0	-29	-47	20	0.58	0.19	1.10	607	N/A
XE.BYR1	205.0	91.0	-13	-30	21	0.68	0.25	1.10	1112	N/A
XE.BYR1	206.0	86.0	-18	-26	-9	0.82	0.71	0.94	1070	N/A
XE.BYR1	207.0	88.0	-21	-31	-12	0.82	0.73	0.92	1121	N/A
XE.BYR1	218.0	87.0	-22	-35	-8	1.12	1.01	1.22	1006	N/A
XE.BYR1	259.0	92.0	51	27	83	1.10	0.85	1.31	653	N/A
XE.BYR1	261.0	87.0	53	42	64	1.52	1.21	1.84	410	N/A
XE.BYR1	261.0	93.0	23	6	49	1.06	0.86	1.27	1059	N/A
XE.BYR1	284.0	102.0	-79	-89	-71	1.18	0.78	1.55	551	N/A
XE.BYR1	299.0	91.0	-59	-70	-48	1.76	1.39	2.08	11	N/A
XE.BYR1	206.0	85.0	-14	-29	10	0.78	0.33	1.08	69	N/A
XE.BYR1	268.0	89.0	73	59	85	1.40	1.25	1.58	118	N/A
XE.BYR1	261.0	90.0	55	46	64	1.68	1.48	1.88	428	N/A
XE.BYR1	204.0	95.0	-7	-31	19	0.56	0.38	0.76	938	N/A
XE.CAR	262.0	87.0	38	29	48	2.26	2.00	2.50	410	N/A
XE.CAR	263.0	91.0	50	39	61	1.94	1.61	2.28	428	N/A
XE.CAR	285.0	103.0	76	59	96	1.22	0.92	1.58	551	N/A

XE.CAR	284.0	103.0	45	31	59	0.90	0.70	1.11	557	N/A
XE.CAR	285.0	103.0	61	51	70	1.11	0.89	1.40	562	N/A
XE.CAR	263.0	94.0	61	12	79	1.58	1.39	1.71	1059	N/A
XE.CZN	264.0	88.0	83	76	88	2.18	1.59	2.61	410	N/A
XE.CZN	206.0	95.0	65	46	90	2.40	1.93	2.86	471	N/A
XE.CZN	262.0	94.0	80	75	85	3.18	2.84	3.52	1062	N/A
XE.DH1	301.0	91.0	39	32	44	0.88	0.79	0.97	11	N/A
XE.DH1	111.0	97.0	-49	-61	-11	0.62	0.32	1.14	28	N/A
XE.DH1	110.0	100.0	-60	-65	-48	0.98	0.48	1.38	40	N/A
XE.DH1	206.0	96.0	24	18	30	1.08	0.77	1.41	59	N/A
XE.DH1	257.0	91.0	32	28	35	1.20	1.15	1.26	62	N/A
XE.DH1	277.0	102.0	26	21	31	0.82	0.72	0.92	64	N/A
XE.DH1	270.0	89.0	30	14	44	1.40	1.29	1.53	118	N/A
XE.DH1	270.0	98.0	21	14	27	1.00	0.92	1.08	158	N/A
XE.DH1	209.0	88.0	26	3	38	0.82	0.46	1.16	250	N/A
XE.DH1	263.0	88.0	34	26	42	1.56	1.39	1.72	410	N/A
XE.DH1	263.0	91.0	49	31	67	1.22	0.98	1.47	428	N/A
XE.DH1	265.0	95.0	23	13	34	0.98	0.89	1.08	457	N/A
XE.DH1	210.0	92.0	19	12	24	0.66	0.50	0.82	534	N/A
XE.DH1	285.0	103.0	27	16	37	1.94	1.58	2.38	557	N/A
XE.DH1	263.0	94.0	19	4	32	1.10	0.99	1.20	1059	N/A
XE.DH1	260.0	93.0	29	25	34	1.04	0.97	1.11	1062	N/A
XE.DH2	264.0	88.0	17	5	41	0.96	0.66	1.42	410	N/A
XE.DH2	264.0	95.0	-1	-15	15	0.74	0.27	1.11	1059	N/A
XE.DH2	261.0	93.0	9	-5	56	0.62	0.24	1.28	1062	N/A
XE.DH3	110.0	102.0	-73	-102	-66	0.78	0.22	1.39	19	N/A
XE.DH3	111.0	99.0	-73	-76	-70	1.20	0.98	1.45	40	N/A
XE.DH3	110.0	105.0	88	64	108	1.36	0.80	1.82	45	N/A
XE.DH3	207.0	96.0	42	37	48	1.12	0.83	1.42	59	N/A
XE.DH3	264.0	95.0	-44	-58	-31	0.58	0.39	0.74	1059	N/A
XE.DH3	272.0	99.0	-23	-35	-15	0.82	0.51	1.10	158	N/A
XE.EFS	107.0	103.0	-81	-85	-77	2.12	1.68	2.50	19	N/A
XE.EFS	205.0	88.0	38	28	51	0.98	0.57	1.28	31	N/A
XE.EFS	205.0	96.0	60	54	66	0.82	0.70	0.92	59	N/A
XE.EFS	256.0	91.0	47	29	67	2.12	1.72	2.57	62	N/A
XE.EFS	275.0	101.0	54	44	63	1.86	1.70	2.02	64	N/A
XE.EFS	284.0	102.0	46	38	54	1.60	1.19	2.02	164	N/A
XE.EFS	261.0	87.0	41	30	53	2.22	1.81	2.58	410	N/A
XE.EFS	209.0	92.0	64	55	74	0.52	0.43	0.60	534	N/A
XE.EFS	206.0	87.0	60	48	72	0.56	0.41	0.72	1070	N/A
XE.FID	284.0	102.0	-84	-91	-78	1.44	1.10	1.79	551	N/A
XE.FID	283.0	102.0	-72	-82	-63	1.10	0.89	1.31	557	N/A
XE.FID	284.0	102.0	-83	-87	-79	1.56	1.32	1.84	562	N/A
XE.FID	206.0	86.0	-38	-45	-31	1.12	1.01	1.24	1070	N/A
XE.GNR	206.0	96.0	-89	-94	-84	0.70	0.59	0.81	59	N/A
XE.GNR	276.0	102.0	71	61	81	1.68	1.51	1.87	64	N/A
XE.GNR	270.0	98.0	87	77	96	1.62	1.27	1.95	158	N/A
XE.GNR	285.0	102.0	53	43	64	1.28	0.98	1.60	164	N/A
XE.GNR	210.0	93.0	-87	-110	-69	0.60	0.34	0.87	534	N/A
XE.GNR	285.0	102.0	83	73	93	1.44	1.19	1.70	551	N/A

XE.GNR	263.0	94.0	80	66	93	1.70	1.57	1.84	1059	N/A
XE.GNR	206.0	92.0	-88	-111	-75	0.74	0.40	1.11	1112	N/A
XE.GNR	208.0	89.0	-77	-94	-67	0.64	0.32	0.90	1121	N/A
XE.GOO	110.0	98.0	-41	-58	-15	1.04	0.67	1.59	28	N/A
XE.GOO	205.0	87.0	-20	-29	-11	0.66	0.63	0.71	31	N/A
XE.GOO	257.0	91.0	52	42	62	1.36	1.16	1.57	62	N/A
XE.GOO	276.0	102.0	48	42	54	1.06	0.98	1.16	64	N/A
XE.GOO	270.0	98.0	45	30	62	0.94	0.78	1.10	158	N/A
XE.GOO	284.0	102.0	52	44	62	0.98	0.79	1.17	164	N/A
XE.GOO	208.0	87.0	-16	-32	3	0.54	0.38	0.71	250	N/A
XE.GOO	208.0	86.0	-5	-18	7	0.70	0.63	0.79	421	N/A
XE.GOO	262.0	91.0	45	35	55	1.86	1.59	2.14	428	N/A
XE.GOO	206.0	98.0	18	-31	37	0.26	0.13	0.46	448	N/A
XE.GOO	209.0	92.0	12	-6	28	0.52	0.33	0.70	534	N/A
XE.GOO	285.0	103.0	59	43	76	0.86	0.63	1.13	551	N/A
XE.GOO	285.0	103.0	53	43	64	1.04	0.85	1.22	562	N/A
XE.GOO	260.0	93.0	53	40	66	1.60	1.33	1.89	1062	N/A
XE.GOO	207.0	86.0	-25	-37	-13	0.66	0.59	0.74	1070	N/A
XE.GOO	208.0	88.0	-14	-32	6	0.74	0.55	0.90	1121	N/A
XE.HURN	107.0	103.0	-54	-66	-30	1.10	0.53	1.90	19	N/A
XE.HURN	110.0	98.0	-49	-57	-35	1.52	0.93	2.03	28	N/A
XE.HURN	205.0	87.0	-36	-40	-30	0.68	0.55	0.80	31	N/A
XE.HURN	109.0	100.0	-45	-52	-35	1.54	1.23	1.82	40	N/A
XE.HURN	205.0	95.0	-38	-54	-3	0.38	0.16	0.67	59	N/A
XE.HURN	256.0	90.0	50	31	64	0.84	0.60	1.09	62	N/A
XE.HURN	206.0	86.0	-43	-50	-31	1.04	0.63	1.44	63	N/A
XE.HURN	276.0	102.0	36	31	41	0.84	0.74	0.93	64	N/A
XE.HURN	269.0	98.0	18	6	31	0.70	0.57	0.83	158	N/A
XE.HURN	284.0	102.0	78	62	90	0.78	0.61	1.05	164	N/A
XE.HURN	207.0	87.0	-33	-49	7	0.68	0.24	1.28	250	N/A
XE.HURN	262.0	87.0	41	22	61	1.58	1.09	2.18	410	N/A
XE.HURN	208.0	86.0	-34	-41	-26	0.78	0.59	0.98	421	N/A
XE.HURN	262.0	90.0	59	45	73	1.38	1.04	1.72	428	N/A
XE.HURN	207.0	97.0	-23	-39	1	0.36	0.28	0.47	448	N/A
XE.HURN	209.0	92.0	-9	-20	3	0.46	0.38	0.56	534	N/A
XE.HURN	285.0	102.0	64	39	109	0.62	0.46	1.49	551	N/A
XE.HURN	284.0	102.0	87	66	99	0.80	0.55	1.26	562	N/A
XE.HURN	266.0	93.0	58	45	69	1.34	1.03	1.69	577	N/A
XE.HURN	266.0	90.0	55	41	67	1.22	1.05	1.40	593	N/A
XE.HURN	107.0	113.0	-70	-80	-61	1.92	1.72	2.10	604	N/A
XE.HURN	205.0	86.0	-35	-46	-24	1.82	1.43	2.10	607	N/A
XE.HURN	281.0	103.0	62	43	82	0.70	0.53	0.86	757	N/A
XE.HURN	106.0	105.0	-34	-53	-10	0.76	0.42	1.17	886	N/A
XE.HURN	281.0	102.0	49	34	65	0.66	0.51	0.83	915	N/A
XE.HURN	267.0	91.0	39	24	53	1.32	1.14	1.50	921	N/A
XE.HURN	204.0	96.0	-36	-57	15	0.36	0.14	0.85	935	N/A
XE.HURN	204.0	96.0	-21	-48	12	0.36	0.18	0.62	938	N/A
XE.HURN	204.0	96.0	-32	-50	24	0.38	0.12	0.85	938b	N/A
XE.HURN	258.0	89.0	58	24	88	0.98	0.63	1.51	1030	N/A
XE.HURN	262.0	94.0	-1	-10	9	0.80	0.67	0.91	1059	N/A

XE.HURN	259.0	92.0	72	61	81	1.36	1.07	1.62	1062	N/A
XE.HURN	283.0	103.0	84	37	102	0.72	0.41	1.50	1069	N/A
XE.HURN	206.0	86.0	-32	-38	-25	0.72	0.55	0.89	1070	N/A
XE.HURN	205.0	91.0	-47	-68	-13	0.92	0.38	1.51	1112	N/A
XE.HURN	208.0	88.0	-16	-31	0	0.82	0.57	1.06	1121	N/A
XE.MCK	300.0	91.0	80	71	88	1.52	1.32	1.71	11	N/A
XE.MCK	110.0	98.0	-18	-64	8	0.34	0.18	0.93	28	N/A
XE.MCK	109.0	100.0	-7	-63	6	0.40	0.14	0.86	40	N/A
XE.MCK	206.0	96.0	-81	-88	-74	0.82	0.61	1.04	59	N/A
XE.MCK	257.0	91.0	45	34	58	2.44	2.23	2.66	62	N/A
XE.MCK	276.0	102.0	61	55	68	1.70	1.59	1.81	64	N/A
XE.MCK	270.0	98.0	76	62	87	1.90	1.73	2.08	158	N/A
XE.MCK	285.0	102.0	58	51	66	1.66	1.44	1.86	164	N/A
XE.MCK	262.0	87.0	53	44	62	2.36	1.98	2.74	410	N/A
XE.MCK	208.0	87.0	86	79	94	0.82	0.68	0.95	448	N/A
XE.MCK	210.0	93.0	-81	-87	-76	0.76	0.58	0.94	534	N/A
XE.MCK	285.0	103.0	52	38	68	1.44	1.00	1.98	562	N/A
XE.MCK	260.0	93.0	54	43	66	2.58	2.38	2.79	1062	N/A
XE.MCK	284.0	103.0	75	59	92	1.04	0.83	1.26	1069	N/A
XE.MHR	110.0	98.0	-49	-56	-39	1.20	0.84	1.59	28	N/A
XE.MHR	205.0	87.0	-44	-50	-37	0.96	0.81	1.12	31	N/A
XE.MHR	108.0	100.0	-51	-56	-45	1.50	1.11	1.85	40	N/A
XE.MHR	205.0	95.0	-47	-55	-35	0.64	0.37	0.92	59	N/A
XE.MHR	269.0	98.0	-11	-25	2	1.10	0.82	1.32	158	N/A
XE.MHR	284.0	102.0	-83	-91	-79	1.38	0.87	1.79	164	N/A
XE.MHR	207.0	87.0	-44	-54	-32	1.00	0.61	1.32	250	N/A
XE.MHR	206.0	97.0	-33	-46	-7	0.54	0.23	0.80	448	N/A
XE.MHR	115.0	115.0	-44	-57	-30	1.32	1.14	1.40	528	N/A
XE.MHR	115.0	115.0	-42	-60	0	0.74	0.26	1.29	528	N/A
XE.MHR	209.0	92.0	-26	-37	-15	0.72	0.54	0.91	534	N/A
XE.MHR	284.0	102.0	-79	-87	-72	1.82	1.31	2.25	551	N/A
XE.MHR	283.0	102.0	89	80	97	1.88	1.63	2.12	557	N/A
XE.MHR	262.0	94.0	4	-10	21	0.52	0.38	0.68	1059	N/A
XE.MHR	207.0	88.0	-34	-44	-24	1.06	0.78	1.32	1121	N/A
XE.NNA	108.0	103.0	72	64	80	2.00	1.79	2.19	19	N/A
XE.NNA	270.0	98.0	45	29	62	1.76	1.49	2.04	158	N/A
XE.NNA	285.0	102.0	63	47	79	0.96	0.74	1.18	164	N/A
XE.NNA	208.0	89.0	89	75	104	1.56	1.06	1.94	250	N/A
XE.NNA	208.0	88.0	89	74	103	1.28	1.00	1.55	421	N/A
XE.NNA	209.0	93.0	90	80	100	1.54	1.29	1.77	534	N/A
XE.NNA	266.0	93.0	33	23	44	1.78	1.51	2.07	577	N/A
XE.NNA	267.0	90.0	43	32	54	2.00	1.69	2.30	593	N/A
XE.NNA	106.0	114.0	75	63	88	1.70	1.19	2.16	604	N/A
XE.NNA	281.0	103.0	67	55	79	1.32	1.03	1.62	757	N/A
XE.NNA	107.0	103.0	77	61	92	1.40	1.08	1.72	797	N/A
XE.NNA	106.0	105.0	85	69	100	1.46	1.06	1.85	886	N/A
XE.NNA	282.0	102.0	59	45	74	1.40	1.09	1.76	915	N/A
XE.NNA	268.0	91.0	58	43	73	1.76	1.43	2.10	921	N/A
XE.NNA	205.0	97.0	-89	-104	-77	1.28	0.96	1.65	935	N/A
XE.NNA	205.0	97.0	-88	-102	-73	1.58	1.23	1.96	938	N/A

XE.NNA	205.0	96.0	89	68	110	1.64	1.14	2.15	939	N/A
XE.NNA	205.0	96.0	84	70	96	1.34	0.93	1.78	950	N/A
XE.NNA	262.0	94.0	50	34	68	0.82	0.67	0.96	1059	N/A
XE.NNA	206.0	92.0	54	38	70	1.72	1.26	2.13	1112	N/A
XE.PVE	208.0	91.0	-36	-49	-19	1.40	1.10	1.60	534	N/A
XE.PVE	261.0	93.0	77	33	103	0.90	0.66	1.13	1059	N/A
XE.PVW	204.0	86.0	8	-17	22	0.94	0.59	1.23	31	N/A
XE.PVW	268.0	97.0	47	36	58	1.44	1.32	1.58	158	N/A
XE.PVW	283.0	102.0	33	27	45	1.08	0.63	1.56	164	N/A
XE.PVW	206.0	86.0	6	-16	21	1.02	0.55	1.48	250	N/A
XE.PVW	260.0	86.0	47	37	58	1.84	1.59	2.11	410	N/A
XE.PVW	207.0	85.0	7	-10	20	1.46	0.90	1.83	421	N/A
XE.PVW	261.0	90.0	48	41	56	2.12	1.79	2.44	428	N/A
XE.PVW	205.0	87.0	13	-1	21	0.54	0.24	0.78	448	N/A
XE.PVW	263.0	94.0	31	18	44	1.44	1.33	1.56	457	N/A
XE.PVW	202.0	94.0	19	-23	41	1.38	0.60	1.93	471	N/A
XE.PVW	261.0	93.0	43	31	54	1.66	1.52	1.79	1059	N/A
XE.PVW	258.0	92.0	35	29	41	2.02	1.89	2.15	1062	N/A
XE.PVW	282.0	103.0	72	43	98	0.86	0.68	1.40	1069	N/A
XE.PVW	205.0	86.0	26	14	37	1.32	1.03	1.58	1070	N/A
XE.PYY	115.0	115.0	-35	-51	-21	1.28	0.98	1.64	528	N/A
XE.PYY	209.0	92.0	-22	-36	1	0.62	0.39	0.97	534	N/A
XE.PYY	283.0	102.0	88	70	104	1.48	1.04	1.86	557	N/A
XE.PYY	259.0	92.0	64	56	71	1.32	1.12	1.52	1062	N/A
XE.RCK	206.0	96.0	86	79	92	1.02	0.91	1.12	59	N/A
XE.RCK	257.0	91.0	44	23	64	2.00	1.75	2.27	62	N/A
XE.RCK	207.0	87.0	76	65	86	0.74	0.61	0.87	63	N/A
XE.RCK	276.0	102.0	55	44	67	1.80	1.66	1.98	64	N/A
XE.RCK	270.0	98.0	82	68	94	2.06	1.86	2.27	158	N/A
XE.RCK	208.0	88.0	78	65	91	0.74	0.62	0.87	250	N/A
XE.RCK	209.0	93.0	79	68	90	1.08	0.86	1.29	534	N/A
XE.RCK	107.0	103.0	49	34	71	0.36	0.28	0.49	797	N/A
XE.RCK	208.0	86.0	60	43	73	2.04	1.84	2.26	1042	N/A
XE.RCK	262.0	94.0	75	57	92	2.12	1.87	2.37	1059	N/A
XE.RCK	260.0	93.0	38	26	50	2.20	2.00	2.41	1062	N/A
XE.RND	300.0	91.0	78	69	89	0.80	0.49	1.08	11	N/A
XE.RND	108.0	103.0	-60	-72	-2	0.68	0.19	1.53	19	N/A
XE.RND	111.0	98.0	-65	-71	-54	1.34	0.75	1.91	28	N/A
XE.RND	206.0	88.0	38	30	48	0.42	0.25	0.59	31	N/A
XE.RND	109.0	100.0	-72	-77	-66	1.52	1.08	1.89	40	N/A
XE.RND	257.0	91.0	38	32	44	1.90	1.79	2.00	62	N/A
XE.RND	276.0	102.0	46	41	51	1.12	1.03	1.22	64	N/A
XE.RND	270.0	98.0	59	47	70	1.30	1.14	1.48	158	N/A
XE.RND	285.0	102.0	53	48	57	1.18	1.07	1.32	164	N/A
XE.RND	262.0	87.0	49	38	60	1.76	1.54	1.99	410	N/A
XE.RND	263.0	91.0	41	29	53	1.96	1.49	2.45	428	N/A
XE.RND	265.0	95.0	64	54	74	1.64	1.52	1.77	457	N/A
XE.RND	285.0	113.0	67	43	91	1.58	1.13	2.32	525	N/A
XE.RND	210.0	92.0	31	26	36	1.98	1.71	2.23	534	N/A
XE.RND	285.0	103.0	50	44	56	0.96	0.82	1.10	551	N/A

XE.RND	284.0	103.0	47	24	70	0.92	0.66	1.20	557	N/A
XE.RND	285.0	103.0	47	41	54	1.00	0.80	1.19	562	N/A
XE.RND	282.0	103.0	47	41	53	1.04	0.92	1.16	915	N/A
XE.RND	268.0	91.0	29	14	43	1.94	1.75	2.13	921	N/A
XE.RND	219.0	88.0	18	0	34	0.90	0.67	1.12	1006	N/A
XE.RND	263.0	94.0	47	38	56	1.68	1.56	1.81	1059	N/A
XE.RND	260.0	93.0	41	36	47	1.76	1.65	1.89	1062	N/A
XE.RND	284.0	104.0	67	53	81	1.08	0.90	1.28	1069	N/A
XE.SAN	205.0	88.0	42	32	52	1.06	0.89	1.19	31	N/A
XE.SAN	205.0	96.0	54	49	60	1.16	1.07	1.24	59	N/A
XE.SAN	257.0	91.0	44	33	55	2.54	2.42	2.66	62	N/A
XE.SAN	207.0	87.0	53	46	61	0.74	0.62	0.86	63	N/A
XE.SAN	276.0	102.0	55	47	62	2.42	2.31	2.53	64	N/A
XE.SAN	206.0	86.0	36	17	55	0.84	0.56	1.09	69	N/A
XE.SAN	270.0	98.0	55	42	67	2.36	2.18	2.52	158	N/A
XE.SAN	284.0	102.0	50	43	58	1.82	1.59	2.06	164	N/A
XE.SAN	262.0	87.0	38	19	55	1.46	1.06	1.83	410	N/A
XE.SAN	206.0	98.0	45	26	63	1.14	1.05	1.21	448	N/A
XE.SAN	264.0	95.0	58	43	73	2.26	2.08	2.45	457	N/A
XE.SAN	262.0	94.0	46	33	59	2.38	2.22	2.52	1059	N/A
XE.SAN	259.0	93.0	60	49	72	2.54	2.34	2.74	1062	N/A
XE.SAN	206.0	92.0	48	35	63	2.32	2.13	2.53	1112	N/A
XE.SBL	108.0	100.0	-76	-81	-72	1.98	1.37	2.69	27	N/A
XE.SBL	109.0	98.0	-78	-86	-73	1.56	0.95	2.14	28	N/A
XE.SBL	205.0	87.0	22	15	29	1.48	1.38	1.58	31	N/A
XE.SBL	108.0	101.0	-81	-85	-78	1.56	1.20	1.89	40	N/A
XE.SBL	261.0	90.0	53	39	68	1.98	1.52	2.39	428	N/A
XE.SBL	259.0	92.0	43	19	78	2.18	1.59	2.63	1062	N/A
XE.SBL	283.0	103.0	73	59	89	1.06	0.74	1.52	1069	N/A
XE.SLM	263.0	91.0	51	43	59	2.06	1.80	2.31	428	N/A
XE.SLM	265.0	95.0	43	23	66	1.36	1.07	1.61	457	N/A
XE.SLM	285.0	103.0	68	60	78	1.40	1.17	1.63	551	N/A
XE.SLM	284.0	103.0	49	28	73	0.66	0.42	0.89	557	N/A
XE.SLM	285.0	103.0	55	42	74	1.52	0.97	2.34	562	N/A
XE.SLM	263.0	94.0	68	44	85	1.76	1.59	1.95	1059	N/A
XE.SLM	260.0	93.0	35	23	46	1.90	1.61	2.17	1062	N/A
XE.SLM	284.0	104.0	71	58	85	1.40	1.12	1.70	1069	N/A
XE.SLT	285.0	102.0	24	13	38	1.98	1.63	2.33	551	N/A
XE.SLT	262.0	94.0	43	25	61	1.76	1.59	1.92	1059	N/A
XE.SOB	262.0	87.0	63	41	88	1.78	1.21	2.57	410	N/A
XE.SOB	206.0	98.0	77	66	88	0.86	0.77	0.94	448	N/A
XE.SOB	115.0	115.0	-88	-104	-67	1.48	1.30	1.70	528	N/A
XE.SOB	115.0	115.0	-85	-95	-77	1.26	1.04	1.46	528	N/A
XE.SOB	209.0	93.0	76	47	116	0.46	0.31	0.71	534	N/A
XE.SOB	262.0	94.0	83	72	93	1.88	1.63	2.10	1059	N/A
XE.SOB	260.0	93.0	58	42	73	2.20	2.03	2.37	1062	N/A
XE.SOB	207.0	87.0	-70	-84	-61	0.74	0.41	1.05	1070	N/A
XE.TCE	205.0	97.0	-21	-34	-7	0.96	0.63	1.24	448	N/A
XE.TCE	208.0	91.0	-35	-48	-24	1.80	1.58	1.97	534	N/A
XE.TCE	284.0	102.0	-58	-68	-25	0.66	0.19	1.30	562	N/A

XE.TCE	259.0	92.0	37	23	53	0.84	0.70	0.99	1062	N/A
XE.TCE	282.0	103.0	-69	-80	-48	1.06	0.45	1.60	1069	N/A
XE.TCE	206.0	86.0	-51	-62	-41	1.80	1.63	1.95	1070	N/A
XE.TLKY	299.0	91.0	-9	-22	4	0.74	0.56	0.90	11	N/A
XE.TLKY	109.0	100.0	-60	-64	-53	1.22	0.66	1.91	27	N/A
XE.TLKY	205.0	86.0	-31	-42	-21	1.36	1.19	1.52	31	N/A
XE.TLKY	108.0	100.0	-58	-63	-53	1.06	0.76	1.41	40	N/A
XE.TLKY	205.0	94.0	-19	-28	-10	1.12	0.88	1.35	59	N/A
XE.TLKY	206.0	85.0	-15	-22	-6	1.54	1.14	1.91	63	N/A
XE.TLKY	275.0	101.0	-19	-24	-14	0.88	0.76	0.99	64	N/A
XE.TLKY	283.0	102.0	-17	-22	-11	0.82	0.70	0.94	164	N/A
XE.TLKY	207.0	86.0	-18	-30	-8	1.48	1.20	1.75	250	N/A
XE.TLKY	207.0	85.0	-25	-35	-15	1.38	1.12	1.65	421	N/A
XE.TLKY	203.0	93.0	-35	-49	-19	1.34	0.82	1.94	471	N/A
XE.TLKY	209.0	91.0	-9	-17	-2	1.10	0.93	1.26	534	N/A
XE.TLKY	283.0	102.0	-17	-25	-9	0.74	0.60	0.88	557	N/A
XE.TLKY	284.0	102.0	-17	-27	-8	0.70	0.53	0.88	562	N/A
XE.TLKY	107.0	113.0	-45	-51	-39	0.84	0.70	0.97	604	N/A
XE.TLKY	280.0	103.0	-20	-29	-13	0.82	0.70	0.92	757	N/A
XE.TLKY	107.0	102.0	-55	-62	-47	0.94	0.56	1.34	797	N/A
XE.TLKY	106.0	105.0	-58	-71	-45	0.90	0.68	1.09	886	N/A
XE.TLKY	281.0	102.0	-20	-25	-15	0.86	0.79	0.93	915	N/A
XE.TLKY	204.0	95.0	-22	-29	-15	1.20	0.99	1.40	935	N/A
XE.TLKY	204.0	93.0	-23	-34	-11	1.36	1.03	1.68	939	N/A
XE.TLKY	204.0	93.0	-30	-38	-21	1.48	1.16	1.78	950	N/A
XE.TLKY	205.0	93.0	-30	-45	-15	1.60	1.42	1.76	1049	N/A
XE.TLKY	283.0	103.0	-26	-53	-10	0.56	0.37	0.89	1069	N/A
XE.TLKY	207.0	87.0	-24	-39	-11	1.26	1.03	1.46	1121	N/A
XE.WOLF	264.0	94.5	38	17	59	0.64	0.51	0.75	457	N/A
XE.WOLF	208.0	91.0	-11	-25	4	0.72	0.59	0.85	534	N/A
XE.WOLF	261.0	93.0	34	21	46	0.76	0.66	0.86	1059	N/A
XE.WOLF	259.0	92.0	49	33	64	1.12	0.90	1.34	1062	N/A
XE.WOLF	206.0	86.0	-12	-28	5	0.74	0.63	0.85	1070	N/A
XE.WON	106.0	104.0	55	41	72	0.86	0.67	1.10	19	N/A
XE.WON	108.0	101.0	-85	-106	-74	0.98	0.65	1.55	27	N/A
XE.WON	109.0	99.0	47	34	85	0.88	0.52	1.41	28	N/A
XE.WON	204.0	87.0	26	17	35	1.76	1.44	1.96	31	N/A
XE.WON	108.0	101.0	50	42	60	0.98	0.78	1.16	40	N/A
XE.WON	204.0	95.0	39	33	49	0.96	0.62	1.29	59	N/A
XE.WON	255.0	90.0	50	32	65	2.56	2.33	2.78	62	N/A
XE.WON	205.0	86.0	35	30	40	1.38	1.08	1.69	63	N/A
XE.WON	274.0	101.0	41	36	46	1.94	1.81	2.07	64	N/A
XE.WON	268.0	97.0	30	21	39	2.20	2.02	2.40	158	N/A
XE.WON	283.0	102.0	35	30	41	1.72	1.36	2.05	164	N/A
XE.WON	260.0	86.0	47	22	68	2.46	1.95	2.89	410	N/A
XE.WON	205.0	97.0	45	36	54	1.06	0.89	1.22	448	N/A
XE.WON	114.0	116.0	43	32	55	0.88	0.65	1.07	528	N/A
XE.WON	261.0	93.0	40	26	54	2.36	2.11	2.61	1059	N/A
XE.WON	258.0	92.0	36	25	46	2.42	2.21	2.65	1062	N/A
XE.YAN	111.0	98.0	-46	-62	-15	0.56	0.33	0.98	28	N/A

XE.YAN	109.0	100.0	-44	-58	-8	0.36	0.22	0.63	40	N/A
XE.YAN	257.0	91.0	46	35	57	2.00	1.86	2.14	62	N/A
XE.YAN	276.0	102.0	57	49	65	1.46	1.33	1.59	64	N/A
XE.YAN	270.0	98.0	-86	-96	-77	1.98	1.78	2.19	158	N/A
XE.YAN	285.0	102.0	61	51	72	1.22	0.95	1.49	164	N/A
XE.YAN	262.0	87.0	44	37	51	2.08	1.88	2.28	410	N/A
XE.YAN	265.0	95.0	89	79	99	1.84	1.68	2.00	457	N/A
XE.YAN	285.0	113.0	62	36	94	0.88	0.48	1.71	525	N/A
XE.YAN	285.0	103.0	38	27	49	1.38	1.06	1.75	551	N/A
XE.YAN	285.0	103.0	61	50	72	1.32	1.03	1.65	562	N/A
XE.YAN	266.0	93.0	55	38	72	2.02	1.65	2.40	577	N/A
XE.YAN	267.0	90.0	58	51	65	2.24	2.07	2.41	593	N/A
XE.YAN	282.0	103.0	62	42	95	1.36	1.03	2.01	915	N/A
XE.YAN	268.0	91.0	10	-3	24	1.58	1.23	1.90	921	N/A
XE.YAN	263.0	94.0	80	70	90	1.86	1.70	2.03	1059	N/A
XE.YAN	260.0	93.0	65	53	76	2.16	1.96	2.35	1062	N/A
XE.YAN	284.0	104.0	54	39	70	1.86	1.61	2.11	1069	N/A
XR.BMQ	265.4	86.2	49	38	60	1.26	1.08	1.45	15905	N/A
XR.BMQ	264.8	96.3	33	19	48	1.32	0.98	1.57	1046	N/A
XR.BMQ	260.6	92.0	19	5	56	0.74	0.39	1.43	1787	N/A
XR.BMQ	205.4	101.8	56	45	74	1.06	0.74	1.42	10793	N/A
XR.BMQ	291.6	98.5	40	31	58	0.70	0.35	1.37	10811	N/A
XR.BMQ	292.2	96.9	40	36	46	1.14	0.79	1.51	16580	N/A
XR.BMQ	265.7	88.4	34	23	45	1.64	1.30	1.99	11062	N/A
XR.BMQ	107.5	89.0	25	23	27	2.84	2.32	3.45	22812	N/A
XR.BMQ	276.0	101.0	24	17	32	1.84	1.31	2.34	11656	N/A
XR.BMQ	208.2	88.3	63	54	71	0.84	0.72	0.98	3715	N/A
XR.BMQ	292.3	96.7	41	37	45	1.16	0.91	1.47	8903	N/A
XR.BMQ	267.1	89.2	40	32	49	1.16	0.96	1.34	13994	N/A
XR.BMQ	292.6	96.7	46	36	103	0.76	0.29	1.73	14348	N/A
XR.BMQ	262.8	91.8	33	23	43	1.12	0.94	1.32	15583	N/A
XR.BMQ	277.4	103.1	27	23	31	1.30	1.02	1.59	15798	N/A
XR.BMQ	267.0	89.1	44	30	58	0.98	0.76	1.20	16381	N/A
XR.BMQ	293.1	96.6	50	42	66	0.76	0.48	1.17	17846	N/A
XR.BMQ	268.5	86.1	46	30	63	0.98	0.74	1.24	21177	N/A
XR.CBM	265.1	85.9	60	47	70	1.04	0.81	1.25	15905	N/A
XR.CBM	264.2	95.9	59	29	77	0.64	0.39	0.96	1046	N/A
XR.CBM	287.5	98.1	-86	-104	-74	1.40	0.80	1.99	5111	N/A
XR.CBM	204.8	100.2	-86	-117	-73	0.88	0.48	1.40	10793	N/A
XR.CBM	291.6	97.3	77	31	98	0.42	0.31	1.20	16580	N/A
XR.CBM	265.4	88.1	69	56	77	1.26	0.81	1.68	11062	N/A
XR.CBM	292.0	97.1	40	27	53	2.36	1.78	2.95	27390	N/A
XR.CBM	262.3	91.4	59	50	68	0.92	0.74	1.13	15583	N/A
XR.CBM	276.6	103.2	22	14	44	0.74	0.37	1.22	15798	N/A
XR.CBM	268.2	85.9	60	42	73	0.86	0.66	1.09	21177	N/A
XR.CHS	258.8	92.5	27	10	51	0.82	0.63	1.03	5478	N/A
XR.CHS	265.6	86.3	32	14	62	1.12	0.85	1.44	15905	N/A
XR.CHS	288.8	99.2	-71	-74	-69	1.54	1.23	1.83	9240	N/A
XR.CHS	216.6	94.4	35	29	40	1.34	1.01	1.66	9526	N/A
XR.CHS	291.9	96.7	-69	-74	-64	1.44	1.07	1.80	10010	N/A

XR.CHS	290.7	97.5	-70	-75	-66	1.36	0.94	1.76	12445	N/A
XR.CHS	292.4	96.9	-70	-74	-68	1.74	1.36	2.04	16580	N/A
XR.CHS	220.7	89.1	32	24	38	1.08	0.90	1.25	17556	N/A
XR.CHS	293.2	96.3	-72	-91	-60	1.42	0.66	2.22	7746	N/A
XR.CHS	294.4	96.3	-67	-70	-66	1.80	1.51	2.01	7996	N/A
XR.CHS	288.4	99.3	-76	-86	-68	1.46	0.86	1.87	9803	N/A
XR.CHS	283.8	102.2	-77	-81	-74	1.44	1.08	1.79	11995	N/A
XR.CHS	267.3	89.3	58	36	73	0.78	0.63	0.99	13994	N/A
XR.CHS	263.0	91.9	76	32	89	1.08	0.61	1.47	15583	N/A
XR.CHS	268.7	86.2	29	18	44	1.24	0.91	1.56	21177	N/A
XR.FRB	266.1	96.8	30	17	58	0.60	0.40	0.87	1046	N/A
XR.FRB	293.4	96.5	42	35	49	1.74	1.31	2.21	16580	N/A
XR.FRB	221.5	90.6	37	32	40	0.96	0.72	1.17	17556	N/A
XR.FRB	266.8	88.9	20	9	42	0.66	0.37	1.00	11062	N/A
XR.FRB	293.8	96.3	90	53	111	0.98	0.59	1.58	27390	N/A
XR.FRB	277.4	101.2	49	34	75	0.46	0.32	0.67	11656	N/A
XR.FRB	279.9	103.4	70	35	91	0.44	0.31	0.76	15720	N/A
XR.FRB	268.1	89.7	43	27	63	0.58	0.47	0.76	13994	N/A
XR.FRB	293.9	96.3	49	44	56	0.94	0.70	1.19	14348	N/A
XR.FRB	263.9	92.5	24	14	37	0.64	0.51	0.78	15583	N/A
XR.FRB	278.9	103.3	84	62	96	0.58	0.42	0.83	15798	N/A
XR.FRB	268.0	89.6	30	18	50	0.70	0.41	1.08	16381	N/A
XR.FRB	294.3	96.2	50	43	60	1.00	0.67	1.45	17846	N/A
XR.GBN	264.7	85.8	-1	-16	32	0.80	0.52	1.17	15905	N/A
XR.GBN	263.9	95.8	45	10	68	0.60	0.37	0.90	1046	N/A
XR.GBN	259.8	91.5	64	47	72	1.14	0.54	1.95	1787	N/A
XR.GBN	291.3	97.0	-80	-87	-75	1.52	1.18	1.87	16580	N/A
XR.GBN	265.0	88.0	72	60	79	1.72	0.94	2.30	11062	N/A
XR.GBN	291.7	96.8	79	66	91	2.14	1.59	2.75	27390	N/A
XR.GBN	207.4	87.2	86	81	91	0.82	0.74	0.88	3715	N/A
XR.GBN	206.7	92.7	67	51	83	0.82	0.66	0.96	3848	N/A
XR.GBN	291.4	96.8	67	58	78	0.96	0.85	1.08	8903	N/A
XR.GBN	291.7	96.8	86	69	99	1.18	0.87	1.67	14348	N/A
XR.GBN	292.2	96.7	81	69	91	1.02	0.85	1.25	17846	N/A
XR.GBN	267.8	85.8	70	60	79	1.48	1.05	1.89	21177	N/A
XR.GTM	254.2	91.3	71	46	97	1.10	0.90	1.30	1046	N/A
XR.GTM	281.5	93.1	-84	-91	-79	1.80	1.21	2.42	8903	N/A
XR.ICT	266.3	86.7	47	34	60	1.02	0.83	1.22	15905	N/A
XR.ICT	207.5	91.2	60	43	102	0.58	0.33	0.89	144	N/A
XR.ICT	265.9	96.7	63	42	79	0.92	0.60	1.19	1046	N/A
XR.ICT	261.6	92.6	58	34	74	1.08	0.73	1.70	1787	N/A
XR.ICT	206.3	103.0	54	42	71	0.56	0.42	0.81	10793	N/A
XR.ICT	292.7	98.4	68	45	104	0.70	0.45	1.26	10811	N/A
XR.ICT	293.2	96.7	53	44	72	1.18	0.72	1.76	16580	N/A
XR.ICT	266.6	88.9	50	36	64	1.18	0.95	1.44	11062	N/A
XR.ICT	293.6	96.5	52	43	67	1.58	0.92	2.30	27390	N/A
XR.ICT	289.2	97.8	49	38	64	1.24	0.75	2.08	5111	N/A
XR.ICT	209.1	89.5	75	62	89	0.44	0.37	0.51	3715	N/A
XR.ICT	208.5	95.1	43	31	60	0.82	0.55	1.04	3848	N/A
XR.ICT	293.4	96.6	52	45	61	1.50	1.11	1.96	8903	N/A

XR.ICT	296.9	94.1	72	52	122	0.38	0.16	0.69	10511	N/A
XR.ICT	268.0	89.6	47	31	64	0.92	0.67	1.19	13994	N/A
XR.ICT	269.3	86.5	64	39	86	0.92	0.59	1.40	21177	N/A
XR.LMW	259.6	92.4	77	69	84	1.16	0.95	1.37	5478	N/A
XR.LMW	266.8	86.6	65	56	74	1.50	1.29	1.70	15905	N/A
XR.LMW	289.4	100.4	88	48	114	0.50	0.32	1.25	9240	N/A
XR.LMW	294.9	97.8	73	51	97	0.70	0.50	1.02	5102	N/A
XR.LMW	292.5	98.0	55	39	106	0.68	0.34	1.19	10010	N/A
XR.LMW	206.3	99.9	55	51	60	1.92	1.70	2.15	10793	N/A
XR.LMW	292.5	99.8	83	56	100	0.72	0.52	1.16	10811	N/A
XR.LMW	293.1	98.2	48	39	66	0.80	0.57	1.06	16580	N/A
XR.LMW	267.0	88.8	44	25	62	1.06	0.83	1.28	11062	N/A
XR.LMW	295.1	97.8	-76	-108	-61	0.80	0.52	1.36	7996	N/A
XR.LMW	293.3	98.1	47	38	65	0.82	0.50	1.21	8903	N/A
XR.LMW	293.5	98.1	78	61	94	1.16	0.88	1.43	11010	N/A
XR.LMW	268.3	89.6	68	39	90	0.98	0.56	1.52	13994	N/A
XR.LMW	263.9	92.1	66	56	74	1.08	0.89	1.29	15583	N/A
XR.LMW	278.1	104.0	49	34	70	0.66	0.51	0.87	15798	N/A
XR.LMW	268.2	89.6	59	47	70	0.94	0.75	1.12	16381	N/A
XR.LMW	294.0	98.0	52	37	86	0.68	0.45	1.15	17846	N/A
XR.LMW	269.8	86.6	63	51	73	1.20	0.98	1.42	21177	N/A
XR.NOM	250.5	89.4	-16	-30	8	1.04	0.45	1.36	1046	N/A
XR.NOM	192.0	96.7	8	0	13	1.18	0.59	1.76	10793	N/A
XR.NOM	278.0	91.4	10	1	20	1.92	1.04	2.88	27390	N/A
XR.NOM	193.4	88.6	-2	-39	18	0.92	0.56	1.28	3848	N/A
XR.PRB	259.9	93.3	46	35	56	0.62	0.53	0.73	5478	N/A
XR.PRB	266.6	86.9	70	45	85	0.90	0.63	1.22	15905	N/A
XR.PRB	290.2	98.9	73	65	81	0.92	0.82	1.01	9240	N/A
XR.PRB	207.8	92.3	56	40	97	0.48	0.23	0.98	144	N/A
XR.PRB	266.4	97.0	50	42	59	0.90	0.82	1.00	1046	N/A
XR.PRB	300.9	89.4	-59	-90	-45	0.88	0.53	1.33	219	N/A
XR.PRB	262.0	92.9	67	50	77	1.12	0.78	1.55	1787	N/A
XR.PRB	206.0	101.9	64	46	99	0.74	0.56	1.15	2740	N/A
XR.PRB	217.7	96.4	-83	-126	-59	0.30	0.20	0.67	9526	N/A
XR.PRB	267.6	95.0	55	34	80	0.72	0.53	1.06	4520	N/A
XR.PRB	204.0	92.0	67	53	86	0.78	0.62	1.07	9614	N/A
XR.PRB	293.2	96.2	58	45	77	0.82	0.61	1.11	10010	N/A
XR.PRB	206.8	104.1	82	52	109	0.48	0.33	0.79	10793	N/A
XR.PRB	293.2	98.0	82	62	98	1.44	1.12	1.86	10811	N/A
XR.PRB	292.0	97.1	-81	-112	-62	0.90	0.68	1.37	12445	N/A
XR.PRB	298.4	94.1	62	51	76	1.14	0.81	1.50	12828	N/A
XR.PRB	293.7	96.4	54	48	61	1.14	0.96	1.39	16580	N/A
XR.PRB	267.0	89.1	45	16	74	0.78	0.55	1.39	11062	N/A
XR.PRB	108.8	89.3	-82	-125	-70	0.72	0.46	1.22	22812	N/A
XR.PRB	294.1	96.2	85	62	107	1.38	1.16	1.64	27390	N/A
XR.PRB	277.8	101.2	38	27	53	1.12	0.78	1.44	11656	N/A
XR.PRB	280.2	103.4	55	32	93	0.70	0.47	1.44	15720	N/A
XR.PRB	208.4	90.2	81	71	91	0.62	0.54	0.68	2182	N/A
XR.PRB	209.5	90.6	84	73	93	0.52	0.45	0.58	3715	N/A
XR.PRB	208.9	96.2	78	49	110	0.40	0.24	0.64	3848	N/A

XR.PRB	294.5	95.8	54	46	67	1.86	1.12	2.45	7746	N/A
XR.PRB	219.7	95.5	-44	-54	-36	1.28	0.75	1.70	7779	N/A
XR.PRB	295.7	95.8	53	49	59	1.38	1.13	1.64	7996	N/A
XR.PRB	208.9	95.0	84	59	109	0.68	0.49	0.92	8008	N/A
XR.PRB	293.9	96.3	60	53	71	1.04	0.83	1.27	8903	N/A
XR.PRB	290.1	98.8	70	62	81	0.92	0.82	1.04	9362	N/A
XR.PRB	294.2	96.2	68	54	86	0.94	0.74	1.24	9467	N/A
XR.PRB	289.8	99.0	77	57	101	0.90	0.69	1.12	9803	N/A
XR.PRB	294.1	96.2	62	51	79	1.02	0.80	1.33	11010	N/A
XR.PRB	285.3	102.0	77	62	90	1.06	0.92	1.22	11995	N/A
XR.PRB	268.3	89.8	65	47	80	0.82	0.60	1.07	13994	N/A
XR.PRB	294.2	96.2	62	55	70	1.12	0.97	1.31	14348	N/A
XR.PRB	264.2	92.6	55	47	63	0.82	0.72	0.93	15583	N/A
XR.PRB	279.3	103.3	73	61	83	0.94	0.80	1.15	15798	N/A
XR.PRB	269.6	86.7	30	13	49	1.18	0.82	1.57	21177	N/A
XR.PRB	244.7	88.7	41	11	63	0.84	0.46	1.26	25592	N/A
XR.RBY	259.4	93.6	50	26	73	1.58	0.95	1.88	1046	N/A
XR.RBY	262.0	86.6	57	49	63	1.52	1.34	1.71	13994	N/A
XR.RBY	271.6	101.1	77	66	83	1.20	0.87	1.53	15798	N/A
XR.SAG	266.4	86.8	36	19	55	0.76	0.53	0.98	15905	N/A
XR.SAG	266.0	96.8	33	19	50	0.64	0.48	0.82	1046	N/A
XR.SAG	261.7	92.7	24	4	64	0.50	0.29	1.02	1787	N/A
XR.SAG	293.4	96.6	38	35	44	0.92	0.59	1.29	16580	N/A
XR.SAG	221.5	90.3	34	32	36	0.98	0.89	1.08	17556	N/A
XR.SAG	277.4	101.2	40	16	76	0.94	0.61	1.40	11656	N/A
XR.SAG	209.3	89.9	43	40	47	0.72	0.55	0.84	3715	N/A
XR.SAG	293.6	96.5	43	37	53	0.88	0.52	1.36	8903	N/A
XR.SAG	297.1	94.0	39	31	47	1.02	0.86	1.14	10511	N/A
XR.SAG	268.1	89.7	31	19	48	0.72	0.49	1.04	13994	N/A
XR.SAG	293.9	96.4	42	35	61	0.76	0.30	1.30	14348	N/A
XR.SAG	263.9	92.4	32	27	37	0.64	0.57	0.72	15583	N/A
XR.SAG	268.0	89.6	32	20	45	0.82	0.60	1.06	16381	N/A
XR.SAG	205.6	92.5	47	40	53	1.38	1.05	1.65	18172	N/A
XR.SAG	269.4	86.6	38	26	53	0.74	0.55	0.97	21177	N/A
XR.SAG	244.4	88.2	26	-11	54	0.66	0.44	0.89	25592	N/A
XR.TFS	265.6	86.4	39	22	60	0.82	0.61	1.07	15905	N/A
XR.TFS	206.8	90.7	80	51	117	0.42	0.20	0.70	144	N/A
XR.TFS	265.1	96.4	28	-1	52	0.58	0.42	0.85	1046	N/A
XR.TFS	205.6	102.5	46	41	52	1.04	0.78	1.32	10793	N/A
XR.TFS	292.5	96.6	45	37	59	0.88	0.54	1.31	16580	N/A
XR.TFS	265.9	88.6	71	38	83	1.16	0.67	1.76	11062	N/A
XR.TFS	292.9	96.4	67	40	96	0.90	0.46	1.48	27390	N/A
XR.TFS	278.7	103.3	29	20	47	0.90	0.51	1.38	15720	N/A
XR.TFS	208.4	89.1	61	54	69	0.42	0.35	0.47	3715	N/A
XR.TFS	207.8	94.6	43	33	59	0.78	0.46	1.07	3848	N/A
XR.TFS	292.6	96.5	43	36	53	1.12	0.74	1.57	8903	N/A
XR.TFS	267.3	89.3	44	24	62	0.82	0.58	1.10	13994	N/A
XR.TFS	263.0	92.0	32	24	40	0.78	0.69	0.88	15583	N/A
XR.TFS	277.8	103.1	45	33	59	0.68	0.54	0.88	15798	N/A
XR.TFS	267.2	89.3	41	19	62	0.74	0.45	1.03	16381	N/A

XR.TFS	268.6	86.2	44	26	62	0.80	0.57	1.02	21177	N/A
XR.WSM	265.2	86.1	42	11	67	1.58	1.07	2.08	15905	N/A
XR.WSM	205.1	101.3	47	39	63	1.00	0.60	1.46	10793	N/A
XR.WSM	291.3	98.5	41	35	50	2.14	1.41	2.77	10811	N/A
XR.WSM	291.9	96.9	43	38	50	1.64	1.30	1.95	16580	N/A
XR.WSM	292.3	96.7	41	34	49	2.18	1.71	2.63	27390	N/A
XR.WSM	207.9	87.9	51	46	58	0.88	0.68	1.07	3715	N/A
XR.WSM	207.2	93.4	65	51	85	0.78	0.49	1.11	3848	N/A
XR.WSM	292.0	96.8	45	40	53	1.34	1.03	1.64	8903	N/A
XR.WSM	292.3	96.7	41	36	46	1.76	1.39	2.16	14348	N/A
XR.WSM	262.5	91.7	39	22	57	1.52	1.24	1.75	15583	N/A
XR.WSM	266.7	89.0	63	49	74	1.62	1.21	2.11	16381	N/A
XR.WSM	292.8	96.7	43	38	49	1.62	1.22	2.02	17846	N/A
XR.WSM	268.2	86.0	42	25	59	1.42	1.11	1.73	21177	N/A
XR.YRT	205.4	100.0	76	64	87	1.18	0.96	1.44	10793	N/A
XR.YRT	291.6	99.3	77	59	89	0.74	0.56	0.97	10811	N/A
XR.YRT	292.2	97.7	87	78	93	0.98	0.73	1.22	16580	N/A
XR.YRT	266.1	88.4	66	59	73	2.26	1.75	2.69	11062	N/A
XR.YRT	288.1	98.5	67	35	87	1.02	0.60	1.45	5111	N/A
XR.YRT	292.3	97.6	-89	-100	-81	1.32	0.87	1.84	8903	N/A
XR.YRT	267.3	89.1	59	54	65	1.72	1.44	2.02	16381	N/A
XR.YRT	268.8	86.2	64	58	71	2.36	2.07	2.62	21177	N/A
YV.ALPI	286.1	101.6	-33	-39	-26	1.14	1.02	1.25	20753	N/A
YV.ALPI	285.3	101.8	-42	-51	-33	1.22	1.12	1.33	20853	N/A
YV.ALPI	287.1	101.4	-21	-30	-11	1.06	0.94	1.17	21497	N/A
YV.ALPI	287.0	101.9	-49	-59	-36	1.22	1.02	1.43	4539	N/A
YV.ALPI	287.1	102.2	-60	-70	-47	1.12	0.79	1.40	4576	N/A
YV.ALPI	281.1	103.2	-51	-64	-38	1.12	0.95	1.28	21579	N/A
YV.ALPI	262.7	94.4	-82	-97	-63	0.62	0.44	0.77	29710	N/A
YV.ALPI	285.9	101.7	-34	-55	-13	1.12	0.87	1.34	224	N/A
YV.ALPI	285.0	102.9	-30	-44	-15	1.06	0.85	1.27	22503	N/A
YV.ALPI	207.8	90.0	-43	-56	4	0.92	0.34	1.25	22767	N/A
YV.ALPI	286.2	102.2	-32	-42	-22	1.50	1.30	1.71	4603	N/A
YV.AVAL	286.1	102.0	-11	-21	-2	1.16	0.96	1.35	20753	N/A
YV.AVAL	104.3	91.3	-35	-45	-25	0.72	0.63	0.81	16088	N/A
YV.AVAL	284.1	101.7	-2	-25	31	1.02	0.76	1.28	21497	N/A
YV.AVAL	287.0	102.3	-34	-43	-23	1.40	1.04	1.79	4539	N/A
YV.AVAL	286.2	102.6	-3	-22	11	1.10	0.76	1.47	4603	N/A
YV.AVAL	287.9	101.6	-43	-51	-33	1.00	0.85	1.20	40	N/A
YV.AVAL	287.1	102.2	-7	-22	9	1.18	0.96	1.39	4576	N/A
YV.BIGB	286.8	101.7	-40	-46	-34	1.26	1.15	1.36	4539	N/A
YV.BIGB	280.9	103.0	-49	-68	-29	1.06	0.81	1.33	21579	N/A
YV.BIGB	203.5	94.4	-12	-29	8	1.04	0.78	1.31	24630	N/A
YV.BIGB	258.4	90.5	43	23	75	0.54	0.27	0.84	19698	N/A
YV.BIGB	287.1	101.5	-34	-49	-19	1.46	1.16	1.72	4587	N/A
YV.BING	103.2	91.9	-43	-52	-34	1.02	0.86	1.17	16088	N/A
YV.BING	284.9	101.3	-58	-65	-50	1.28	0.83	1.68	20753	N/A
YV.BLAK	287.0	102.3	-51	-57	-45	1.18	0.99	1.37	20753	N/A
YV.BLAK	288.0	102.1	-50	-63	-20	1.10	0.66	1.49	21497	N/A
YV.BLAK	287.9	102.6	-44	-58	-13	1.00	0.70	1.33	4539	N/A

YV.BLAK	263.6	94.9	-90	-105	-76	0.98	0.67	1.23	29710	N/A
YV.BLAK	259.6	91.0	-41	-58	-23	0.44	0.34	0.52	19698	N/A
YV.BLAK	288.2	102.4	-45	-55	-33	1.20	0.88	1.55	4587	N/A
YV.BYR2	285.8	100.9	85	70	96	1.16	0.83	1.50	20753	N/A
YV.BYR2	286.7	100.7	-83	-98	-71	1.02	0.75	1.29	21497	N/A
YV.BYR2	256.6	101.2	-80	-87	-73	1.16	0.96	1.35	4539	N/A
YV.BYR2	217.9	88.9	-8	-16	0	0.92	0.78	1.07	8373	N/A
YV.BYR2	217.9	89.1	-20	-30	-10	1.26	1.02	1.50	8646	N/A
YV.BYR2	207.2	91.1	-17	-26	-8	0.82	0.76	0.89	22767	N/A
YV.BYR2	207.0	91.7	-5	-17	8	0.82	0.69	0.96	23630	N/A
YV.BYR2	259.0	90.3	40	29	51	1.22	1.02	1.43	18489	N/A
YV.BYR2	267.4	97.9	50	26	71	0.96	0.70	1.24	26429	N/A
YV.BYR2	256.9	90.7	28	19	38	1.08	0.98	1.16	27740	N/A
YV.BYR2	217.3	89.8	-15	-29	1	1.08	0.82	1.32	23365	N/A
YV.CASW	103.7	92.0	-49	-57	-37	0.64	0.44	0.79	16088	N/A
YV.CASW	206.7	86.3	-45	-70	-22	1.66	1.50	1.89	25968	N/A
YV.CASW	285.8	101.2	-24	-36	-14	0.76	0.64	0.89	20753	N/A
YV.CASW	286.7	101.4	-18	-44	8	0.94	0.70	1.17	4469	N/A
YV.CASW	286.7	100.9	-34	-59	-12	0.74	0.51	0.96	21497	N/A
YV.CASW	286.7	101.5	-16	-35	-2	0.78	0.63	0.96	4539	N/A
YV.CASW	286.9	101.3	-14	-37	6	0.80	0.62	1.00	4587	N/A
YV.DEVL	106.7	89.8	-3	-21	11	0.46	0.35	0.60	15258	N/A
YV.DEVL	258.3	90.2	9	0	19	1.26	0.85	1.56	14407	N/A
YV.DEVL	285.9	101.8	-22	-42	-5	0.68	0.52	0.87	20753	N/A
YV.DEVL	285.1	101.9	-48	-65	-28	0.64	0.50	0.78	20853	N/A
YV.DEVL	104.1	91.4	-3	-18	6	0.38	0.28	0.49	16088	N/A
YV.DEVL	286.9	101.6	-33	-47	-17	0.78	0.62	0.97	21497	N/A
YV.DEVL	286.8	102.1	-5	-20	3	0.90	0.61	1.26	4539	N/A
YV.DEVL	280.9	103.3	-47	-62	-24	0.42	0.24	0.62	21579	N/A
YV.DEVL	262.6	94.3	24	12	43	0.50	0.27	0.71	29710	N/A
YV.DEVL	285.7	101.8	-47	-66	-23	0.52	0.32	0.72	224	N/A
YV.DEVL	258.6	90.4	22	5	41	0.54	0.40	0.66	19698	N/A
YV.DEVL	286.0	102.4	-49	-64	-34	1.60	1.13	1.99	4603	N/A
YV.DEVL	284.8	103.1	-23	-46	6	0.60	0.37	0.90	31699	N/A
YV.DEVL	287.8	101.4	-50	-67	-10	0.78	0.45	1.18	41	N/A
YV.DEVL	204.7	95.1	14	-33	24	0.78	0.29	1.39	5673	N/A
YV.DIVI	286.1	102.0	-28	-52	-2	0.56	0.39	0.84	20753	N/A
YV.DIVI	285.2	102.1	-45	-64	-27	0.80	0.67	0.94	20853	N/A
YV.DIVI	287.0	101.8	-7	-28	7	1.12	0.69	1.62	21497	N/A
YV.DIVI	286.9	102.3	-41	-53	2	0.68	0.46	0.97	4539	N/A
YV.HEAD	104.3	91.2	-44	-50	-37	0.98	0.90	1.06	16088	N/A
YV.HEAD	286.0	102.0	-40	-51	-27	1.04	0.77	1.31	20753	N/A
YV.HEAD	286.9	101.8	-41	-53	-28	1.32	1.03	1.60	21497	N/A
YV.HEAD	286.8	102.3	-45	-59	-25	1.16	0.90	1.46	4539	N/A
YV.HEAD	287.8	101.7	-44	-53	-33	1.08	0.92	1.27	40	N/A
YV.HOLG	204.9	89.1	-31	-47	3	0.64	0.38	1.01	15714	N/A
YV.HOLG	106.6	89.7	-36	-57	-15	0.92	0.68	1.15	15258	N/A
YV.HOLG	285.6	101.9	-36	-46	-25	0.76	0.64	0.88	20753	N/A
YV.HOLG	104.0	91.3	-56	-61	-50	0.92	0.83	0.99	16088	N/A
YV.HOLG	258.4	90.2	-14	-30	1	0.76	0.49	0.98	19698	N/A

YV.HOLG	207.6	88.7	-47	-68	-24	0.76	0.53	1.01	22767	N/A
YV.HOPE	106.7	89.9	-22	-54	2	0.42	0.33	0.55	15258	N/A
YV.HOPE	286.0	101.7	-21	-32	-11	1.04	0.81	1.29	20753	N/A
YV.HOPE	285.1	101.9	-38	-49	-26	0.98	0.86	1.09	20853	N/A
YV.HOPE	285.9	101.8	-41	-56	-26	1.02	0.81	1.23	21393	N/A
YV.HOPE	104.1	91.5	-15	-34	-3	0.38	0.30	0.46	16088	N/A
YV.HOPE	286.9	102.0	-31	-53	-10	0.64	0.49	0.85	4539	N/A
YV.HOPE	287.0	101.9	-40	-56	-21	0.90	0.62	1.90	4576	N/A
YV.HOPE	280.9	103.3	-50	-65	-35	0.98	0.67	1.27	21579	N/A
YV.HOPE	285.8	101.8	-32	-45	-19	1.06	0.85	1.25	224	N/A
YV.HOPE	284.9	103.0	-41	-55	-27	1.08	0.81	1.34	22503	N/A
YV.HOPE	286.1	102.3	-30	-55	-2	1.08	0.75	1.40	4603	N/A
YV.HOPE	287.8	101.3	-44	-62	-23	1.22	0.93	1.57	41	N/A
YV.HOPE	287.8	101.3	-36	-45	-26	0.92	0.84	1.03	40	N/A
YV.HOPJ	292.6	99.4	-4	-15	5	1.44	1.18	1.71	17846	N/A
YV.HOPJ	286.1	101.8	-21	-34	-11	0.84	0.66	1.06	20753	N/A
YV.HOPJ	287.1	101.6	-4	-34	16	0.90	0.57	1.51	21497	N/A
YV.HOPJ	287.0	102.1	-20	-28	-11	1.48	1.32	1.66	4539	N/A
YV.HOPJ	287.1	102.0	-27	-39	-13	1.42	0.95	1.80	4576	N/A
YV.INDI	106.8	89.9	-35	-56	-1	0.48	0.28	0.70	15258	N/A
YV.INDI	286.1	101.7	-31	-44	-18	0.72	0.58	0.86	20753	N/A
YV.INDI	285.2	101.9	-35	-48	-22	0.76	0.64	0.88	20853	N/A
YV.INDI	287.0	101.9	-13	-37	5	0.90	0.56	1.27	4469	N/A
YV.INDI	104.2	91.5	-52	-66	-14	0.36	0.19	0.58	16088	N/A
YV.INDI	287.0	101.5	-15	-38	6	0.72	0.57	0.97	21497	N/A
YV.INDI	287.0	102.0	-35	-48	-16	0.92	0.78	1.10	4539	N/A
YV.KASH	286.6	101.5	-12	-30	1	0.74	0.50	1.05	4539	N/A
YV.KASH	286.9	101.3	-46	-62	-32	1.60	1.22	2.03	4587	N/A
YV.KNIK	285.2	101.7	-44	-61	-29	1.14	0.96	1.31	20853	N/A
YV.KNIK	287.0	101.7	-50	-66	-32	1.04	0.87	1.21	4469	N/A
YV.KNIK	286.9	102.0	-43	-50	-35	1.16	1.00	1.33	4539	N/A
YV.KNIK	287.1	101.7	-64	-81	-46	1.44	1.05	1.77	4576	N/A
YV.KNIK	285.8	101.6	-30	-47	-9	0.70	0.49	0.94	224	N/A
YV.KNIK	257.4	90.7	78	53	100	1.04	0.79	1.22	27740	N/A
YV.KNIK	287.0	101.3	-38	-52	-25	1.12	0.94	1.30	21497	N/A
YV.LSKI	261.8	93.9	25	4	46	0.62	0.48	0.76	29710	N/A
YV.LSKI	258.8	89.7	49	30	69	0.80	0.59	1.02	18496	N/A
YV.LSUM	286.1	101.8	-19	-32	-7	0.76	0.63	0.91	20753	N/A
YV.LSUM	285.2	102.0	-24	-40	-6	0.82	0.63	1.00	20853	N/A
YV.LSUM	287.0	101.5	-33	-42	-22	0.94	0.82	1.06	21497	N/A
YV.LSUM	286.9	102.1	-15	-36	-3	0.94	0.75	1.19	4539	N/A
YV.LSUM	281.0	103.4	-38	-55	-21	0.60	0.42	0.78	21579	N/A
YV.LSUM	287.2	102.4	-32	-51	-11	0.86	0.69	1.08	4587	N/A
YV.LSUM	286.2	102.4	-46	-71	-14	1.06	0.79	1.33	4603	N/A
YV.LSUM	267.5	88.5	50	32	70	0.58	0.40	0.76	30124	N/A
YV.LSUM	287.9	101.4	-37	-55	-17	0.90	0.65	1.16	41	N/A
YV.LSUM	287.8	101.4	5	-3	10	1.40	1.07	1.67	40	N/A
YV.MAIN	105.4	90.7	-20	-40	-1	0.52	0.37	0.68	16088	N/A
YV.MOOP	286.1	101.9	-32	-46	-17	0.82	0.63	1.02	20753	N/A
YV.MOOP	285.2	102.1	-62	-76	-47	0.78	0.64	0.93	20853	N/A

YV.MOOP	287.1	102.2	-7	-33	8	1.28	0.72	1.87	4469	N/A
YV.MOOP	287.0	102.2	-46	-58	-26	0.94	0.69	1.24	4539	N/A
YV.MOOP	287.1	102.1	-8	-26	9	0.92	0.71	1.13	4576	N/A
YV.MOOP	285.9	102.0	-57	-68	-47	0.86	0.74	1.01	224	N/A
YV.MOOP	287.2	102.1	-25	-36	-14	1.04	0.89	1.20	4587	N/A
YV.NANC	275.8	103.8	-57	-66	-45	0.94	0.73	1.15	15798	N/A
YV.NANC	299.3	93.1	-32	-49	-13	0.86	0.62	1.09	28797	N/A
YV.NANC	292.1	98.8	-45	-57	-32	1.80	1.50	2.11	17846	N/A
YV.NANC	285.8	101.3	-49	-57	-40	0.98	0.83	1.12	20753	N/A
YV.NANC	285.7	101.4	-39	-63	-17	0.90	0.64	1.08	21393	N/A
YV.NANC	286.7	101.4	-31	-46	-17	0.82	0.69	0.95	21497	N/A
YV.NANC	286.6	101.6	-27	-35	-18	0.80	0.70	0.88	4539	N/A
YV.NANC	284.7	102.5	-38	-55	-21	0.90	0.71	1.07	22503	N/A
YV.NSKI	203.3	94.9	-26	-41	-6	0.58	0.38	0.97	5673	N/A
YV.PERI	105.6	90.7	-34	-50	19	0.40	0.32	0.49	16088	N/A
YV.PERI	287.5	102.5	-56	-62	-51	1.82	1.52	2.12	20753	N/A
YV.PORT	286.6	102.0	-46	-66	-13	0.66	0.34	1.03	20753	N/A
YV.RUSS	285.5	101.6	-38	-60	-10	0.48	0.33	0.71	20753	N/A
YV.RUSS	286.5	101.8	-19	-34	-9	0.80	0.65	0.98	4469	N/A
YV.RUSS	286.4	101.9	-18	-49	0	0.44	0.33	0.72	4539	N/A
YV.RUSS	262.2	94.1	-85	-116	-72	0.52	0.28	0.75	29710	N/A
YV.RUSS	267.0	88.3	57	39	89	0.56	0.29	0.82	30124	N/A
YV.RUSS	204.3	95.0	16	-19	28	0.62	0.27	1.19	5673	N/A
YV.SNUG	285.8	101.7	-39	-57	-15	0.58	0.41	0.83	20753	N/A
YV.SOLD	102.8	92.1	-52	-64	-40	0.96	0.74	1.17	16088	N/A
YV.TUPA	285.4	101.9	-43	-50	-37	1.06	0.90	1.24	20753	N/A
YV.TUPA	287.3	101.7	-38	-55	1	0.76	0.44	1.24	21497	N/A
YV.TUPA	287.2	102.2	-55	-61	-49	1.38	1.06	1.77	4539	N/A
YV.TUPA	262.7	94.6	-86	-99	-74	1.12	0.85	1.33	29710	N/A
YV.TUPA	287.5	102.1	-47	-55	-38	1.38	1.05	1.70	4587	N/A
YV.USKI	106.2	90.0	-37	-51	-24	0.78	0.64	0.90	15258	N/A
YV.USKI	257.7	89.9	39	27	59	0.78	0.54	0.98	14407	N/A
YV.USKI	204.5	89.5	-40	-58	-2	0.70	0.40	1.15	15714	N/A
YV.USKI	103.6	91.7	-35	-45	-26	0.60	0.53	0.68	16088	N/A
YV.USKI	286.3	101.8	-5	-22	6	0.88	0.60	1.18	4469	N/A
YV.USKI	286.3	101.3	-19	-29	-10	0.76	0.66	0.86	21497	N/A
YV.WHIT	105.0	91.0	-40	-53	-23	0.42	0.33	0.53	16088	N/A
YV.WHIT	286.9	102.2	-51	-61	-38	1.04	0.81	1.28	20753	N/A
YV.WHIT	287.8	102.5	-50	-55	-44	1.20	0.98	1.44	4539	N/A

Supplemental File D: Nulls from all stations.
This table shows the null measurements from this study. The Julian date refers to the events listed in Supplemental File B.

Station	Backazimuth (Deg)	Distance (Deg)	Julian Date	Origin Time
AK.ANM	271.1	93.4	2015.135	20:26:56
AK.BAGL	214.1	89.3	2010.362	08:34:18
AK.BAGL	276.4	88.8	2011.041	14:39:28
AK.BAGL	214.9	92.4	2011.052	10:57:52
AK.BAGL	225.7	90.1	2011.130	08:55:09
AK.BAGL	214.4	89.8	2011.210	07:42:23
AK.BAGL	249.9	87.5	2011.348	05:04:59
AK.BAGL	114.7	97.0	2010.126	02:42:48
AK.BAGL	110.9	87.7	2010.144	16:18:29
AK.BAGL	305.6	96.1	2010.151	19:51:56
AK.BAGL	214.1	86.6	2010.228	19:35:49
AK.BAL	210.6	87.3	2011.031	06:03:27
AK.BAL	225.5	90.4	2011.130	08:55:09
AK.BAL	114.2	101.6	2011.171	16:36:01
AK.BAL	224.0	90.3	2011.246	22:55:41
AK.BAL	251.0	86.8	2012.081	22:15:06
AK.BAL	292.6	105.7	2012.258	04:51:47
AK.BAL	266.5	93.2	2012.282	11:43:31
AK.BAL	224.7	88.9	2013.103	22:49:51
AK.BAL	211.6	94.5	2013.116	06:53:29
AK.BAL	211.5	99.9	2013.166	11:20:36
AK.BAL	212.8	108.7	2013.228	02:31:06
AK.BAL	210.7	96.3	2013.284	21:25:00
AK.BAL	209.5	98.3	2014.033	09:26:37
AK.BAL	213.8	85.9	2014.202	14:54:41
AK.BAL	115.4	92.9	2014.236	23:21:46
AK.BAL	270.9	98.9	2015.058	13:45:05
AK.BAL	214.7	89.9	2017.002	13:14:03
AK.BARK	298.2	102.4	2010.096	22:15:02
AK.BARK	114.2	101.4	2011.171	16:36:01
AK.BARK	297.7	101.4	2012.175	04:34:53
AK.BARN	250.2	86.9	2010.107	23:15:22
AK.BARN	111.3	87.7	2010.144	16:18:29
AK.BARN	212.0	100.1	2013.166	11:20:36
AK.BARN	211.3	96.5	2013.284	21:25:00
AK.BARN	209.7	95.9	2014.184	19:50:05
AK.BARN	277.2	86.9	2010.205	05:35:01
AK.BARN	262.9	91.7	2010.272	17:11:26
AK.BARN	214.5	89.9	2010.362	08:34:18
AK.BARN	211.2	87.5	2011.031	06:03:27
AK.BARN	214.8	90.4	2011.210	07:42:23

AK.BARN	124.7	111.4	2012.085	22:37:06
AK.BARN	298.5	101.5	2012.175	04:34:53
AK.BARN	111.6	88.8	2015.330	05:45:18
AK.BCP	295.3	106.4	2016.153	22:56:01
AK.BCP	295.3	106.4	2016.153	22:56:01
AK.BERG	213.7	89.0	2010.181	04:31:02
AK.BERG	266.4	95.3	2011.242	06:57:42
AK.BERG	296.5	100.9	2012.175	04:34:53
AK.BESE	304.3	105.7	2011.248	17:55:11
AK.BESE	233.8	89.9	2012.033	13:34:41
AK.BESE	304.3	105.7	2012.175	04:34:53
AK.BESE	217.6	96.7	2013.224	04:16:48
AK.BESE	315.4	88.5	2016.104	13:55:18
AK.BMR	289.6	105.1	2010.125	16:29:03
AK.BMR	297.9	100.4	2010.129	05:59:42
AK.BMR	303.4	98.3	2010.163	19:26:51
AK.BMR	212.7	92.1	2011.052	10:57:52
AK.BMR	112.3	102.5	2011.171	16:36:01
AK.BMR	212.2	89.5	2011.210	07:42:23
AK.BMR	113.1	95.5	2012.159	16:03:19
AK.BMR	209.8	91.6	2015.218	23:59:45
AK.BMR	119.5	109.1	2015.269	02:51:18
AK.BMR	109.0	90.1	2015.330	05:45:18
AK.BMR	291.0	103.7	2016.153	22:56:01
AK.BPAW	297.7	90.7	2010.151	19:51:56
AK.BPAW	290.4	96.3	2012.175	04:34:53
AK.BPAW	290.8	97.6	2014.186	09:39:30
AK.BRLK	258.4	91.4	2013.335	01:24:14
AK.BRLK	202.4	95.3	2014.033	09:26:37
AK.BRLK	207.5	89.2	2014.124	09:25:15
AK.BRLK	284.9	102.5	2010.298	14:42:23
AK.BRLK	206.4	86.5	2010.362	08:34:18
AK.BRLK	207.3	89.5	2011.052	10:57:52
AK.BRLK	206.7	86.9	2011.210	07:42:23
AK.BRLK	269.1	100.3	2011.286	03:16:30
AK.BRSE	206.7	89.3	2014.085	03:29:37
AK.BRSE	202.0	92.7	2014.184	19:50:05
AK.BRSE	108.3	96.3	2014.236	23:21:46
AK.CAPN	205.6	91.7	2013.240	02:54:42
AK.CAST	298.3	88.5	2010.089	16:54:47
AK.CAST	108.2	98.7	2013.268	16:42:44
AK.CAST	289.3	96.1	2011.248	17:55:11
AK.CAST	106.3	99.6	2012.159	16:03:19
AK.CCB	220.8	85.6	2014.064	09:56:59
AK.CCB	116.6	113.8	2014.235	22:32:24
AK.CCB	150.4	94.9	2014.249	06:53:14

AK.CCB	210.1	91.6	2010.181	04:31:02
AK.CCB	109.3	90.8	2012.315	14:57:51
AK.CHI	104.8	97.7	2014.236	23:21:46
AK.CHN	255.9	89.1	2015.058	13:45:05
AK.CHUM	265.2	87.6	2011.347	07:52:12
AK.CHUM	289.2	95.8	2012.175	04:34:53
AK.CHUM	274.0	100.9	2014.025	05:14:21
AK.CHUM	205.8	91.3	2014.124	09:15:53
AK.CHUM	276.4	98.6	2016.293	00:26:01
AK.CNP	107.9	96.4	2014.236	23:21:46
AK.CNP	274.8	104.4	2013.164	16:47:23
AK.CNP	3.1	86.0	2013.166	16:11:03
AK.CNP	3.0	86.1	2013.167	21:39:06
AK.CNP	205.9	105.1	2013.202	05:09:32
AK.CNP	206.1	105.2	2013.228	02:31:06
AK.CNP	284.5	102.4	2010.298	14:42:23
AK.CNP	107.2	105.1	2011.171	16:36:01
AK.CNP	289.6	97.8	2011.248	17:55:11
AK.CNP	109.5	95.1	2012.030	05:11:01
AK.CNP	289.6	97.8	2012.175	04:34:53
AK.CNP	284.7	101.0	2016.153	22:56:01
AK.COLD	218.5	87.0	2014.064	09:56:59
AK.COLD	216.3	93.4	2014.121	06:36:35
AK.COLD	291.9	96.8	2014.186	09:39:30
AK.COLD	219.1	90.1	2014.189	12:56:27
AK.COLD	265.1	88.2	2010.095	10:05:46
AK.COLD	103.6	93.1	2010.144	16:18:29
AK.COLD	208.0	93.4	2010.181	04:31:02
AK.COLD	106.1	107.3	2010.193	00:11:21
AK.COLD	106.1	91.6	2011.236	17:46:12
AK.COLD	219.5	90.8	2011.236	23:06:17
AK.COLD	105.5	102.7	2012.135	10:00:40
AK.COLD	220.8	87.5	2012.188	02:28:22
AK.COLD	220.8	87.7	2015.293	21:52:02
AK.COLD	287.0	99.4	2016.153	22:56:01
AK.CRQ	214.2	89.5	2010.181	04:31:02
AK.CRQ	213.5	89.7	2011.210	07:42:23
AK.CRQ	211.1	96.1	2013.224	04:16:48
AK.CRQ	212.5	93.6	2013.240	02:54:42
AK.CRQ	208.9	97.9	2014.033	09:26:37
AK.CRQ	213.3	92.1	2014.085	03:29:37
AK.CTG	214.7	87.2	2010.228	19:35:49
AK.CTG	224.8	90.6	2010.251	11:37:32
AK.CTG	115.0	101.1	2011.171	16:36:01
AK.CTG	116.3	92.4	2014.236	23:21:46
AK.CTG	112.0	89.5	2015.328	22:50:54

AK.CUT	202.5	95.3	2014.184	19:50:05
AK.CUT	108.5	96.9	2014.236	23:21:46
AK.CUT	204.9	91.7	2015.218	23:59:45
AK.CUT	203.9	96.0	2015.236	09:41:26
AK.CYK	292.7	105.0	2016.153	22:56:01
AK.DHY	262.2	91.1	2012.282	11:43:31
AK.DHY	260.6	92.6	2012.345	16:53:09
AK.DHY	114.6	109.2	2013.030	20:15:43
AK.DHY	261.7	94.1	2013.244	11:52:30
AK.DHY	206.6	97.0	2013.284	21:25:00
AK.DHY	205.5	99.0	2014.033	09:26:37
AK.DHY	209.6	93.0	2014.085	03:29:37
AK.DHY	218.8	90.9	2014.121	06:36:35
AK.DHY	210.2	91.6	2014.124	09:15:53
AK.DHY	110.9	95.9	2014.236	23:21:46
AK.DHY	264.3	89.0	2010.073	00:57:45
AK.DHY	120.9	115.3	2010.075	02:21:58
AK.DHY	267.8	89.1	2010.095	10:05:46
AK.DHY	287.6	103.2	2010.125	16:29:03
AK.DHY	301.0	92.6	2010.151	19:51:56
AK.DHY	107.7	111.2	2011.001	09:56:58
AK.DHY	271.5	86.2	2011.041	14:41:59
AK.DHY	112.5	94.6	2012.030	05:11:01
AK.DHY	108.8	100.3	2012.135	10:00:40
AK.DHY	110.4	97.5	2012.159	16:03:19
AK.DHY	257.4	87.2	2012.252	10:51:44
AK.DHY	106.5	92.0	2015.330	05:45:18
AK.DHY	106.6	92.8	2016.353	13:30:11
AK.DIV	294.8	99.7	2011.248	17:55:11
AK.DIV	273.9	102.8	2011.286	03:16:30
AK.DIV	294.8	99.7	2012.175	04:34:53
AK.DIV	289.4	104.1	2012.258	04:51:47
AK.DIV	208.7	93.8	2013.116	06:53:29
AK.DIV	302.3	94.2	2010.151	19:51:56
AK.DIV	210.9	88.9	2010.362	08:34:18
AK.DIV	109.7	109.9	2011.001	09:56:58
AK.DIV	208.2	99.5	2011.108	13:03:03
AK.DIV	111.3	103.1	2011.171	16:36:01
AK.DOT	121.3	113.8	2010.059	11:25:36
AK.DOT	109.2	89.6	2010.144	16:18:29
AK.DOT	210.3	101.7	2013.166	11:20:36
AK.DOT	224.3	86.0	2014.064	09:56:59
AK.DOT	297.1	100.6	2014.186	09:39:30
AK.DOT	151.9	99.3	2014.282	02:14:33
AK.DOT	213.2	112.7	2010.246	16:35:48
AK.DOT	110.3	110.0	2011.001	09:56:58

AK.DOT	275.2	100.2	2011.069	17:08:37
AK.DOT	111.1	111.4	2011.245	13:47:10
AK.DOT	296.7	99.3	2011.248	17:55:11
AK.DOT	276.0	103.4	2011.286	03:16:30
AK.DOT	106.6	98.9	2011.326	18:48:16
AK.DOT	121.9	113.8	2012.085	22:37:06
AK.DOT	110.9	111.1	2012.149	05:07:24
AK.DOT	296.7	99.3	2012.175	04:34:53
AK.DOT	269.8	98.0	2015.058	13:45:05
AK.DOT	116.3	106.3	2016.207	17:26:50
AK.DOT	107.4	103.0	2017.052	14:09:04
AK.EYAK	302.3	94.5	2010.151	19:51:56
AK.EYAK	211.9	88.6	2010.181	04:31:02
AK.EYAK	264.7	94.3	2011.242	06:57:42
AK.EYAK	296.3	101.0	2012.207	00:27:45
AK.EYAK	289.4	104.3	2013.187	05:05:07
AK.EYAK	210.2	92.7	2013.240	02:54:42
AK.EYAK	267.9	97.2	2015.058	13:45:05
AK.EYAK	109.9	104.5	2016.217	14:15:12
AK.FALS	252.8	87.0	2015.058	13:45:05
AK.FALS	93.6	98.7	2015.330	05:45:18
AK.FALS	94.1	100.1	2015.328	22:45:38
AK.FALS	93.9	99.6	2015.328	22:50:54
AK.FIB	269.4	97.5	2011.069	17:08:37
AK.FIB	204.6	98.6	2011.108	13:03:03
AK.FIB	207.3	88.4	2011.210	07:42:23
AK.FID	261.2	92.6	2012.345	16:53:09
AK.FID	209.6	107.3	2013.228	02:31:06
AK.FID	111.7	101.3	2014.093	02:43:17
AK.FID	219.4	89.3	2014.121	06:36:35
AK.FID	211.3	91.1	2014.124	09:25:15
AK.FID	119.0	111.5	2014.235	22:32:24
AK.FID	220.2	88.7	2010.251	11:37:32
AK.FID	210.5	88.8	2011.210	07:42:23
AK.FID	294.0	99.5	2011.248	17:55:11
AK.FID	208.1	91.0	2015.218	23:59:45
AK.FIRE	207.7	89.3	2014.124	09:15:53
AK.FIRE	108.6	96.5	2014.236	23:21:46
AK.FIRE	264.1	95.1	2015.058	13:45:05
AK.FIRE	104.1	92.8	2015.330	05:45:18
AK.FYU	108.1	91.0	2010.144	16:18:29
AK.FYU	110.7	89.5	2011.236	17:46:12
AK.FYU	246.8	88.4	2011.348	05:04:59
AK.FYU	296.5	98.8	2014.186	09:39:30
AK.GHO	107.3	89.5	2011.236	17:46:12
AK.GHO	107.8	112.9	2011.245	13:47:10

AK.GHO	271.2	101.3	2011.286	03:16:30
AK.GHO	206.1	93.6	2013.116	06:53:29
AK.GHO	217.4	89.4	2014.121	06:36:35
AK.GHO	209.3	91.5	2014.124	09:25:15
AK.GHO	258.8	91.0	2014.340	22:05:11
AK.GHO	208.0	85.6	2015.167	06:17:01
AK.GHO	208.5	83.2	2017.231	02:00:52
AK.GLB	211.8	108.6	2013.228	02:31:06
AK.GLB	213.3	91.1	2014.124	09:15:53
AK.GLB	297.0	101.7	2014.186	09:39:30
AK.GLB	212.4	85.8	2014.202	14:54:41
AK.GLB	263.3	93.3	2014.340	22:05:11
AK.GLB	269.7	98.1	2015.058	13:45:05
AK.GLB	112.1	99.0	2015.082	04:51:37
AK.GLB	210.5	92.2	2015.218	23:59:45
AK.GLB	213.0	90.5	2017.168	22:26:03
AK.GLI	295.1	100.3	2012.207	00:27:45
AK.GLI	271.8	92.5	2012.231	09:41:53
AK.GLI	260.8	92.4	2012.345	16:53:09
AK.GLI	278.9	106.3	2013.164	16:47:23
AK.GLI	207.6	98.6	2013.166	11:20:36
AK.GLI	209.2	107.3	2013.202	05:09:32
AK.GLI	209.3	107.4	2013.228	02:31:06
AK.GLI	209.1	92.7	2013.240	02:54:42
AK.GLI	112.8	95.6	2013.268	16:42:44
AK.GLI	205.6	97.1	2014.033	09:26:37
AK.GLI	272.7	102.2	2011.286	03:16:30
AK.GLI	218.8	89.8	2012.063	12:19:55
AK.GLI	266.8	96.5	2015.058	13:45:05
AK.GLI	106.8	91.2	2015.330	05:45:18
AK.GLI	108.7	105.2	2016.217	14:15:12
AK.GLM	108.4	100.9	2012.135	10:00:40
AK.GLM	107.6	112.9	2012.149	05:07:24
AK.GOAT	112.5	98.2	2010.126	02:42:48
AK.GOAT	212.5	90.2	2014.124	09:15:53
AK.GOAT	212.6	91.8	2011.052	10:57:52
AK.GOAT	212.1	89.2	2011.210	07:42:23
AK.GOAT	268.8	97.7	2015.058	13:45:05
AK.GRIN	304.4	95.7	2010.151	19:51:56
AK.GRIN	213.8	91.9	2011.052	10:57:52
AK.GRIN	210.1	99.3	2011.108	13:03:03
AK.GRIN	113.5	101.7	2011.171	16:36:01
AK.GRIN	296.9	101.1	2012.175	04:34:53
AK.GRIN	212.0	107.8	2013.228	02:31:06
AK.GRIN	222.3	90.0	2014.121	06:36:35
AK.GRIN	114.6	93.0	2014.236	23:21:46

AK.GRIN	153.0	95.8	2014.305	10:59:55
AK.GRIN	292.0	104.6	2016.153	22:56:01
AK.GRIN	213.4	89.6	2017.168	22:26:03
AK.GRNC	115.9	92.5	2014.236	23:21:46
AK.GRNC	214.7	90.1	2011.210	07:42:23
AK.GRNC	113.8	109.0	2012.149	05:07:24
AK.GRNC	212.1	94.4	2013.116	06:53:29
AK.GRNC	211.2	96.2	2013.284	21:25:00
AK.HDA	210.8	94.5	2011.052	10:57:52
AK.HDA	221.4	91.4	2011.130	08:55:09
AK.HDA	210.2	91.9	2011.210	07:42:23
AK.HDA	207.9	96.4	2013.116	06:53:29
AK.HDA	210.0	94.3	2014.085	03:29:37
AK.HDA	208.9	87.4	2014.305	18:57:22
AK.HDA	210.7	91.6	2017.002	13:14:03
AK.HIN	210.6	88.5	2011.210	07:42:23
AK.HIN	264.0	93.9	2011.242	06:57:42
AK.HIN	294.0	99.6	2012.175	04:34:53
AK.HIN	279.2	106.7	2013.164	16:47:23
AK.HIN	209.7	107.1	2013.228	02:31:06
AK.HIN	210.9	89.5	2014.124	09:15:53
AK.HIN	110.9	103.2	2011.171	16:36:01
AK.HIN	206.1	91.7	2016.195	12:11:13
AK.HMT	212.5	89.1	2011.210	07:42:23
AK.HMT	222.3	89.1	2011.246	22:55:41
AK.HMT	212.9	83.1	2017.231	02:00:52
AK.HOM	102.6	92.0	2010.144	16:18:29
AK.ISLE	298.3	102.3	2010.096	22:15:02
AK.ISLE	291.6	106.3	2010.125	16:29:03
AK.ISLE	276.0	88.7	2011.041	14:41:59
AK.ISLE	113.3	109.2	2012.149	05:07:24
AK.ISLE	297.8	101.4	2012.175	04:34:53
AK.KHIT	214.1	89.2	2010.181	04:31:02
AK.KHIT	213.9	92.1	2011.052	10:57:52
AK.KHIT	275.3	100.9	2011.069	17:08:37
AK.KHIT	297.0	101.1	2012.175	04:34:53
AK.KHIT	264.1	94.2	2012.345	16:53:09
AK.KHIT	212.1	107.9	2013.228	02:31:06
AK.KHIT	212.3	93.3	2013.240	02:54:42
AK.KHIT	270.1	98.4	2015.058	13:45:05
AK.KIAG	276.7	86.0	2010.204	22:08:11
AK.KIAG	213.7	89.5	2010.362	08:34:18
AK.KIAG	112.3	108.4	2011.001	09:56:58
AK.KIAG	210.4	87.1	2011.031	06:03:27
AK.KIAG	275.8	88.5	2011.041	14:41:59
AK.KIAG	210.7	86.0	2011.043	17:57:57

AK.KIAG	276.0	101.2	2011.069	17:08:37
AK.KIAG	114.0	101.6	2011.171	16:36:01
AK.KIAG	213.9	90.0	2011.210	07:42:23
AK.KIAG	223.7	90.1	2011.246	22:55:41
AK.KIAG	297.6	101.1	2012.175	04:34:53
AK.KIAG	224.5	88.8	2013.103	22:49:51
AK.KIAG	222.9	90.7	2014.121	06:36:35
AK.KIAG	214.3	91.0	2014.124	09:15:53
AK.KIAG	214.7	92.4	2014.124	09:25:15
AK.KIAG	110.4	88.1	2010.144	16:18:29
AK.KIAG	291.4	105.7	2017.225	03:08:11
AK.KLU	119.3	111.6	2014.235	22:32:24
AK.KLU	109.5	110.1	2011.001	09:56:58
AK.KLU	211.6	92.2	2011.052	10:57:52
AK.KLU	208.1	99.8	2011.108	13:03:03
AK.KLU	105.4	99.2	2011.326	18:48:16
AK.KLU	110.1	111.1	2012.149	05:07:24
AK.KLU	294.7	99.4	2012.175	04:34:53
AK.KLU	208.7	91.8	2015.218	23:59:45
AK.KLU	222.1	88.0	2016.202	15:13:16
AK.KLU	106.3	103.2	2017.052	14:09:04
AK.KLU	210.3	85.4	2016.268	21:28:42
AK.KNK	292.4	98.4	2011.248	17:55:11
AK.KNK	217.6	89.9	2012.063	12:19:55
AK.KNK	293.9	99.5	2012.207	00:27:45
AK.KNK	277.8	105.6	2013.164	16:47:23
AK.KNK	208.7	91.3	2014.085	03:29:37
AK.KNK	217.8	89.2	2014.121	06:36:35
AK.KNK	209.7	91.3	2014.124	09:25:15
AK.KNK	259.2	91.1	2014.340	22:05:11
AK.KNK	206.5	91.1	2015.218	23:59:45
AK.KNK	261.1	89.8	2015.343	10:21:50
AK.KTH	206.6	90.3	2011.210	07:42:23
AK.KTH	290.4	96.6	2011.248	17:55:11
AK.KTH	215.6	90.3	2014.121	06:36:35
AK.KTH	205.3	85.9	2014.305	18:57:22
AK.KULT	214.6	89.2	2010.181	04:31:02
AK.KULT	214.3	92.0	2011.052	10:57:52
AK.KULT	213.9	89.4	2011.210	07:42:23
AK.LOGN	306.6	96.3	2010.151	19:51:56
AK.LOGN	216.1	90.1	2010.181	04:31:02
AK.LOGN	226.6	90.7	2011.130	08:55:09
AK.MCAR	113.9	97.4	2010.126	02:42:48
AK.MCAR	304.7	95.7	2010.151	19:51:56
AK.MCAR	213.6	89.5	2011.210	07:42:23
AK.MCAR	270.4	98.5	2015.058	13:45:05

AK.MCAR	265.8	92.4	2015.343	10:21:50
AK.MCAR	284.3	103.2	2016.293	00:26:01
AK.MCK	204.6	88.2	2011.031	06:03:27
AK.MCK	204.9	87.2	2011.043	17:57:57
AK.MCK	209.0	93.5	2011.052	10:57:52
AK.MCK	108.0	105.4	2011.171	16:36:01
AK.MCK	208.4	90.9	2011.210	07:42:23
AK.MCK	208.2	88.6	2011.258	19:31:04
AK.MCK	106.8	113.2	2012.149	05:07:24
AK.MCK	206.3	100.8	2013.166	11:20:36
AK.MCK	208.8	91.9	2014.124	09:15:53
AK.MCK	207.7	86.6	2014.202	14:54:41
AK.MCK	207.1	86.4	2014.305	18:57:22
AK.MCK	106.4	106.9	2016.217	14:15:12
AK.MCK	208.9	90.5	2017.002	13:14:03
AK.MDM	300.2	91.3	2010.151	19:51:56
AK.MDM	107.0	113.5	2011.245	13:47:10
AK.MDM	293.0	97.1	2011.248	17:55:11
AK.MESA	111.3	88.6	2015.330	05:45:18
AK.MESA	293.2	105.2	2016.153	22:56:01
AK.MLY	146.2	102.0	2014.282	02:14:33
AK.MLY	278.0	99.1	2016.293	00:26:01
AK.NICH	209.6	99.1	2011.108	13:03:03
AK.NICH	113.0	102.0	2011.171	16:36:01
AK.NICH	211.7	92.9	2013.240	02:54:42
AK.NICH	213.2	83.1	2017.231	02:00:52
AK.PAX	212.0	93.6	2011.052	10:57:52
AK.PAX	208.6	101.2	2011.108	13:03:03
AK.PAX	211.5	91.0	2011.210	07:42:23
AK.PAX	295.3	99.1	2011.248	17:55:11
AK.PAX	268.4	97.4	2015.058	13:45:05
AK.PAX	268.5	97.4	2016.236	19:39:44
AK.PAX	267.7	97.0	2016.340	01:13:05
AK.PAX	263.6	95.2	2016.356	00:17:15
AK.PAX	211.5	91.4	2017.168	22:26:03
AK.PIN	251.5	88.2	2011.348	05:04:59
AK.PIN	214.2	108.5	2013.228	02:31:06
AK.PIN	121.6	108.7	2016.325	20:57:44
AK.PNL	295.5	106.6	2016.153	22:56:01
AK.PPD	210.2	88.7	2014.305	18:57:22
AK.PPD	268.7	97.4	2015.058	13:45:05
AK.PPD	225.2	87.7	2015.293	21:52:02
AK.PPD	108.2	92.9	2015.328	22:50:54
AK.PPD	268.8	97.5	2016.236	19:39:44
AK.PPLA	215.3	88.8	2011.246	22:55:41
AK.PPLA	289.2	96.3	2011.248	17:55:11

AK.PPLA	284.5	99.7	2016.153	22:56:01
AK.PS01	222.6	89.2	2010.063	14:02:28
AK.PS01	243.4	87.9	2010.107	23:15:22
AK.PS01	106.6	107.6	2010.193	00:11:21
AK.PS01	207.1	89.0	2011.231	03:54:27
AK.PS01	218.7	95.5	2011.246	22:55:41
AK.PS01	222.3	90.2	2012.188	02:28:22
AK.PS01	222.4	89.9	2012.356	22:28:09
AK.PS01	207.2	103.3	2013.224	04:16:48
AK.PS04	204.4	88.4	2013.131	20:46:58
AK.PS04	206.5	104.9	2013.166	11:20:36
AK.PS04	294.4	110.0	2014.165	11:11:00
AK.PS04	207.2	90.7	2014.202	14:54:41
AK.PS05	205.4	88.9	2014.305	18:57:22
AK.PS05	216.6	92.3	2010.251	11:37:32
AK.PS05	219.8	90.2	2012.033	13:34:41
AK.PS05	219.9	87.7	2013.207	07:07:16
AK.PS05	220.7	86.4	2014.001	16:03:30
AK.PS05	218.1	86.6	2014.064	09:56:59
AK.PS08	210.0	91.6	2010.362	08:34:18
AK.PS08	107.6	111.4	2011.001	09:56:58
AK.PS08	206.8	88.3	2011.043	17:57:57
AK.PS08	109.6	104.8	2011.171	16:36:01
AK.PS08	210.3	92.0	2011.210	07:42:23
AK.PS08	109.2	89.5	2011.236	17:46:12
AK.PS08	220.1	91.5	2011.246	22:55:41
AK.PS08	109.0	100.6	2012.135	10:00:40
AK.PS08	207.2	98.4	2013.284	21:25:00
AK.PS08	224.4	85.8	2014.001	16:03:30
AK.PS08	211.2	94.3	2014.124	09:25:15
AK.PS08	117.5	113.4	2014.235	22:32:24
AK.PS08	111.2	96.2	2014.236	23:21:46
AK.PS08	209.0	87.6	2014.305	18:57:22
AK.PS09	211.2	91.8	2011.210	07:42:23
AK.PS09	210.0	87.2	2014.305	18:57:22
AK.PS10	210.9	90.9	2010.362	08:34:18
AK.PS10	207.8	87.5	2011.043	17:57:57
AK.PS10	211.8	93.9	2011.052	10:57:52
AK.PS10	110.8	103.9	2011.171	16:36:01
AK.PS10	110.1	99.7	2012.135	10:00:40
AK.PS10	212.0	93.6	2014.124	09:25:15
AK.PS11	212.1	90.0	2010.181	04:31:02
AK.PS11	211.2	89.8	2010.362	08:34:18
AK.PS11	110.5	111.5	2011.245	13:47:10
AK.PS11	295.2	99.4	2011.248	17:55:11
AK.PS11	295.2	99.4	2012.175	04:34:53

AK.PS11	209.0	100.0	2013.166	11:20:36
AK.PS11	220.4	90.7	2014.121	06:36:35
AK.PS12	112.0	98.7	2010.126	02:42:48
AK.PS12	110.1	109.7	2011.001	09:56:58
AK.PS12	212.3	92.4	2011.052	10:57:52
AK.PS12	223.0	89.8	2011.130	08:55:09
AK.PS12	211.7	89.8	2011.210	07:42:23
AK.PTPK	223.0	90.9	2014.121	06:36:35
AK.PTPK	115.3	93.0	2014.236	23:21:46
AK.PTPK	214.1	90.3	2011.210	07:42:23
AK.PTPK	297.8	101.1	2012.175	04:34:53
AK.PTPK	270.8	98.8	2015.058	13:45:05
AK.PWL	208.8	90.8	2014.085	03:29:37
AK.PWL	217.9	88.8	2014.121	06:36:35
AK.PWL	219.9	88.6	2011.013	16:16:42
AK.PWL	209.5	91.1	2011.052	10:57:52
AK.PWL	206.6	90.7	2015.218	23:59:45
AK.PWL	106.0	93.2	2015.328	22:45:38
AK.PWL	105.9	92.7	2015.328	22:50:54
AK.PWL	209.0	88.9	2017.168	22:26:03
AK.RAG	209.7	95.4	2013.224	04:16:48
AK.RAG	212.2	89.0	2011.210	07:42:23
AK.RC01	109.4	95.3	2010.143	22:46:52
AK.RC01	208.4	88.1	2010.181	04:31:02
AK.RC01	207.4	87.9	2010.362	08:34:18
AK.RC01	208.3	91.0	2011.052	10:57:52
AK.RC01	205.0	98.6	2011.108	13:03:03
AK.RC01	207.7	88.4	2011.210	07:42:23
AK.RC01	108.7	97.9	2012.159	16:03:19
AK.RC01	205.5	94.9	2013.224	04:16:48
AK.RC01	208.5	90.7	2014.124	09:25:15
AK.RC01	104.6	93.4	2016.353	13:30:11
AK.RDOG	92.0	99.1	2015.330	05:45:18
AK.RIDG	108.5	90.0	2010.144	16:18:29
AK.RIDG	296.0	98.9	2012.175	04:34:53
AK.RIDG	291.4	102.6	2016.153	22:56:01
AK.RKAV	115.2	100.8	2011.171	16:36:01
AK.RKAV	115.9	93.8	2012.159	16:03:19
AK.RND	206.2	95.1	2013.116	06:53:29
AK.RND	208.3	93.0	2014.085	03:29:37
AK.RND	217.4	90.7	2014.121	06:36:35
AK.RND	207.2	86.1	2014.305	18:57:22
AK.RND	209.1	93.2	2011.052	10:57:52
AK.RND	208.5	90.6	2011.210	07:42:23
AK.RND	206.1	92.9	2015.218	23:59:45
AK.RND	205.2	97.1	2015.236	09:41:26

AK.RND	103.3	105.0	2017.052	14:09:04
AK.RND	108.4	106.9	2017.105	08:19:42
AK.RND	208.5	91.0	2017.168	22:26:03
AK.SAMH	110.9	100.3	2017.052	14:09:04
AK.SAMN	114.7	108.3	2012.149	05:07:24
AK.SAW	208.4	86.1	2010.228	19:35:49
AK.SAW	208.6	88.9	2010.362	08:34:18
AK.SAW	209.5	91.9	2011.052	10:57:52
AK.SAW	271.1	98.4	2011.069	17:08:37
AK.SAW	206.2	99.5	2011.108	13:03:03
AK.SAW	109.0	104.5	2011.171	16:36:01
AK.SAW	208.9	89.3	2011.210	07:42:23
AK.SAW	292.5	98.3	2011.248	17:55:11
AK.SAW	109.8	97.5	2012.159	16:03:19
AK.SAW	292.6	98.3	2012.175	04:34:53
AK.SAW	206.6	93.8	2013.116	06:53:29
AK.SAW	209.3	90.3	2014.124	09:15:53
AK.SAW	209.8	91.6	2014.124	09:25:15
AK.SAW	105.8	92.9	2016.353	13:30:11
AK.SCM	111.1	95.4	2014.236	23:21:46
AK.SCM	210.4	92.2	2011.052	10:57:52
AK.SCM	272.0	98.9	2011.069	17:08:37
AK.SCM	207.0	99.8	2011.108	13:03:03
AK.SCM	108.7	88.8	2011.236	17:46:12
AK.SCM	207.6	96.1	2013.224	04:16:48
AK.SCM	209.6	91.9	2014.085	03:29:37
AK.SCM	210.6	91.9	2014.124	09:25:15
AK.SCM	288.7	102.2	2016.153	22:56:01
AK.SCM	108.3	105.6	2016.217	14:15:12
AK.SCM	280.5	101.2	2016.293	00:26:01
AK.SCM	209.9	89.9	2017.168	22:26:03
AK.SCRK	305.6	91.2	2010.089	16:54:47
AK.SCRK	270.8	90.6	2010.095	10:05:46
AK.SCRK	296.8	99.2	2012.175	04:34:53
AK.SCRK	221.8	92.5	2014.121	06:36:35
AK.SCRK	112.6	104.0	2015.161	13:52:09
AK.SCRK	292.2	102.9	2016.153	22:56:01
AK.SCRK	284.0	102.2	2016.293	00:26:01
AK.SCRK	290.6	103.9	2017.225	03:08:11
AK.SGA	210.7	92.8	2013.240	02:54:42
AK.SGA	211.7	89.0	2011.210	07:42:23
AK.SII	271.6	103.1	2013.164	16:47:23
AK.SKN	106.5	106.4	2010.193	00:11:21
AK.SKN	289.7	96.9	2011.248	17:55:11
AK.SKN	111.2	116.0	2015.033	10:49:49
AK.SKN	263.0	94.5	2015.058	13:45:05

AK.SKN	105.4	102.7	2015.082	04:51:37
AK.SKN	114.3	113.2	2015.264	17:40:01
AK.SKN	258.3	88.5	2015.343	10:21:50
AK.SLK	102.9	104.9	2017.052	14:09:04
AK.SSN	263.6	94.8	2015.058	13:45:05
AK.SSP	211.2	95.7	2013.224	04:16:48
AK.SSP	212.7	93.2	2013.240	02:54:42
AK.SWD	205.7	97.4	2013.166	11:20:36
AK.SWD	207.1	91.4	2013.240	02:54:42
AK.SWD	110.8	96.4	2013.268	16:42:44
AK.SWD	208.3	88.6	2014.124	09:15:53
AK.SWD	208.8	89.9	2014.124	09:25:15
AK.SWD	109.4	95.8	2014.236	23:21:46
AK.SWD	108.6	100.2	2010.126	02:42:48
AK.SWD	293.3	98.6	2010.129	05:59:42
AK.SWD	109.7	94.8	2010.143	22:46:52
AK.SWD	104.8	92.2	2015.330	05:45:18
AK.TGL	213.8	89.8	2011.210	07:42:23
AK.TGL	297.4	101.1	2012.175	04:34:53
AK.TGL	110.7	90.1	2015.328	22:50:54
AK.TRF	216.2	90.4	2014.121	06:36:35
AK.TRF	207.6	91.3	2014.124	09:15:53
AK.TRF	108.3	97.2	2014.236	23:21:46
AK.TRF	205.8	85.9	2014.305	18:57:22
AK.TRF	218.1	90.0	2011.013	16:16:42
AK.TRF	207.9	92.9	2011.052	10:57:52
AK.TRF	217.0	89.7	2011.246	22:55:41
AK.TRF	291.0	96.9	2011.248	17:55:11
AK.TRF	216.0	91.0	2012.063	12:19:55
AK.TRF	204.9	92.6	2015.218	23:59:45
AK.VMT	210.4	88.7	2010.362	08:34:18
AK.VMT	221.6	89.4	2011.013	16:16:42
AK.VMT	221.9	89.1	2011.130	08:55:09
AK.VMT	210.7	89.2	2011.210	07:42:23
AK.VRDI	306.0	93.0	2010.089	16:54:47
AK.VRDI	111.6	108.9	2011.001	09:56:58
AK.VRDI	292.1	104.2	2016.153	22:56:01
AK.VRDI	292.1	104.2	2016.153	22:56:01
AK.VRDI	111.7	103.7	2016.217	14:15:12
AK.VRDI	290.4	105.1	2017.225	03:08:11
AK.WAT1	287.3	102.3	2013.187	05:05:07
AK.WAT1	206.6	96.7	2013.224	04:16:48
AK.WAT1	205.6	96.5	2013.284	21:25:00
AK.WAT1	260.6	93.1	2013.335	01:24:14
AK.WAT1	208.6	92.5	2014.085	03:29:37
AK.WAT1	217.7	90.3	2014.121	06:36:35

AK.WAT1	209.1	91.2	2014.124	09:15:53
AK.WAT1	279.6	100.4	2016.293	00:26:01
AK.WAT10	206.6	97.2	2017.180	07:03:11
AK.WAT2	206.6	100.1	2013.166	11:20:36
AK.WAT2	206.6	96.8	2013.224	04:16:48
AK.WAT2	207.9	94.2	2013.240	02:54:42
AK.WAT2	204.5	98.7	2014.033	09:26:37
AK.WAT2	209.1	91.3	2014.124	09:15:53
AK.WAT2	207.4	85.8	2014.305	18:57:22
AK.WAT2	286.1	101.0	2015.135	20:26:56
AK.WAT2	286.1	102.3	2017.225	03:08:11
AK.WAT3	207.9	85.9	2016.268	21:28:42
AK.WAT5	206.9	97.0	2013.224	04:16:48
AK.WAT5	204.8	98.8	2014.033	09:26:37
AK.WAT5	209.9	92.8	2014.124	09:25:15
AK.WAT6	208.6	94.0	2013.240	02:54:42
AK.WAT6	206.3	96.4	2013.284	21:25:00
AK.WAT6	208.2	85.6	2014.305	18:57:22
AK.WAT6	207.1	92.3	2015.218	23:59:45
AK.WAT6	106.2	92.0	2015.330	05:45:18
AK.WAT6	261.7	90.3	2015.343	10:21:50
AK.WAT6	261.6	94.1	2016.356	00:17:15
AK.WAT7	217.4	90.3	2014.121	06:36:35
AK.WAT7	292.6	99.0	2014.186	09:39:30
AK.WAT7	207.8	85.8	2014.202	14:54:41
AK.WAT7	267.1	99.3	2016.043	10:02:25
AK.WAT7	207.7	86.9	2016.148	04:08:44
AK.WAT7	287.5	101.2	2016.153	22:56:01
AK.WAT7	209.5	90.5	2017.168	22:26:03
AK.WAT7	287.5	101.2	2016.153	22:56:01
AK.WAT8	279.4	100.3	2016.293	00:26:01
AK.WAT9	264.7	95.5	2016.340	01:13:05
AK.WAX	211.3	91.6	2015.218	23:59:45
AK.WAX	292.5	104.7	2016.153	22:56:01
AK.WRH	105.8	92.7	2015.330	05:45:18
AT.CHGN	99.3	93.0	2011.236	17:46:12
AT.CHGN	102.2	101.0	2012.159	16:03:19
AT.CHGN	97.5	96.0	2015.330	05:45:18
AT.CHGN	97.9	97.4	2015.328	22:45:38
AT.CHGN	97.8	96.9	2015.328	22:50:54
AT.MENT	119.5	108.2	2015.315	01:54:38
AT.MID	267.2	96.8	2015.058	13:45:05
AT.MID	107.7	91.3	2015.328	22:50:54
AT.OHAK	101.3	92.4	2010.144	16:18:29
AT.OHAK	205.3	86.7	2011.052	10:57:52
AT.OHAK	101.7	93.4	2015.330	05:45:18

AT.OHAK	101.9	94.3	2015.328	22:50:54
AT.PMR	104.7	91.3	2010.144	16:18:29
AT.PMR	208.8	91.6	2011.052	10:57:52
AT.PMR	205.5	99.2	2011.108	13:03:03
AT.PMR	208.2	89.0	2011.210	07:42:23
AT.PMR	291.8	98.1	2011.248	17:55:11
AT.PMR	271.0	101.2	2011.286	03:16:30
AT.PMR	293.4	99.1	2012.207	00:27:45
AT.PMR	205.9	93.4	2013.116	06:53:29
AT.PMR	207.4	92.8	2013.240	02:54:42
AT.PMR	208.1	91.3	2014.085	03:29:37
AT.PMR	208.6	90.0	2014.124	09:15:53
AT.PMR	203.4	94.8	2014.184	19:50:05
AT.PMR	205.9	91.2	2015.218	23:59:45
AT.PMR	207.5	85.8	2016.148	04:08:44
AT.PMR	287.0	101.5	2016.153	22:56:01
AT.PMR	263.6	91.8	2016.157	16:25:34
AT.PMR	268.5	102.3	2016.161	04:13:08
AT.SKAG	220.0	90.5	2010.362	08:34:18
AT.SKAG	343.2	90.3	2011.018	20:23:24
AT.SKAG	282.1	105.0	2011.069	17:08:37
AT.SKAG	216.9	100.5	2013.166	11:20:36
AT.SKAG	217.3	97.2	2013.224	04:16:48
AT.SKAG	218.9	94.8	2013.240	02:54:42
AT.TTA	201.7	88.4	2010.362	08:34:18
AT.TTA	285.7	94.6	2011.248	17:55:11
AT.TTA	203.1	91.1	2014.124	09:25:15
AT.TTA	199.8	91.2	2015.218	23:59:45
AT.TTA	99.0	96.7	2015.328	22:50:54
AV.AKBB	271.5	93.8	2016.153	22:56:01
AV.AKGG	91.9	101.0	2015.328	22:50:54
AV.AKRB	250.6	85.3	2015.058	13:45:05
AV.AKSA	250.9	85.5	2015.058	13:45:05
AV.AU22	213.5	86.1	2014.121	06:36:35
AV.AUL	205.1	88.6	2011.052	10:57:52
AV.AUSB	282.7	100.0	2016.153	22:56:01
AV.AUSS	202.1	88.3	2015.218	23:59:45
AV.AUSS	200.1	89.4	2016.195	12:11:13
AV.AUWS	101.6	94.8	2015.328	22:50:54
AV.ILBB	224.4	85.6	2010.063	14:02:28
AV.ILBB	106.7	91.2	2010.144	16:18:29
AV.ILBB	109.5	104.9	2011.171	16:36:01
AV.ILBB	109.2	89.6	2011.236	17:46:12
AV.ILBB	220.0	91.7	2011.246	22:55:41
AV.ILBB	223.2	89.7	2012.033	13:34:41
AV.ILBB	224.1	86.3	2012.356	22:28:09

AV.ILBB	219.2	92.3	2014.121	06:36:35
AV.ILBB	209.5	88.0	2014.202	14:54:41
AV.ILBB	111.2	96.3	2014.236	23:21:46
AV.ILS	202.2	100.0	2016.245	16:37:58
AV.ISLZ	93.9	100.2	2015.328	22:45:38
AV.IVE	101.7	93.9	2015.330	05:45:18
AV.IVE	101.9	94.7	2015.328	22:50:54
AV.KABU	100.2	95.5	2015.328	22:50:54
AV.KAKN	99.8	93.5	2010.144	16:18:29
AV.KAKN	204.3	105.5	2010.246	16:35:48
AV.KAKN	200.6	95.0	2011.108	13:03:03
AV.MAPS	268.9	93.9	2017.225	03:08:11
AV.RDDF	102.0	93.8	2015.330	05:45:18
AV.RDJH	103.9	91.0	2011.236	17:46:12
AV.RDSO	106.6	97.4	2014.236	23:21:46
AV.RED	108.1	96.1	2012.030	05:11:01
AV.RED	102.1	94.7	2015.328	22:50:54
AV.SPBG	267.5	96.5	2011.069	17:08:37
AV.SPBG	262.2	94.0	2015.058	13:45:05
AV.SPCG	107.1	97.3	2014.236	23:21:46
AV.SPCN	102.4	93.7	2015.330	05:45:18
AV.SPCN	102.5	94.6	2015.328	22:50:54
AV.SPCP	105.9	106.1	2011.171	16:36:01
AV.SPCP	262.4	94.1	2015.058	13:45:05
AV.SPCR	262.3	94.1	2015.058	13:45:05
AV.SPCR	102.4	94.6	2016.353	13:30:11
AV.SVW2	285.9	95.3	2011.248	17:55:11
CN.DAWY	216.2	89.1	2016.268	21:28:42
CN.DAWY	115.8	104.2	2017.049	12:10:15
CN.YUK2	211.0	94.3	2016.195	12:11:13
CN.YUK2	215.6	91.5	2017.168	22:26:03
CN.YUK5	297.3	106.6	2016.153	22:56:01
CN.YUK6	296.8	106.5	2016.153	22:56:01
CN.YUK8	295.6	105.7	2016.153	22:56:01
IM.IL31	106.9	92.3	2015.330	05:45:18
TA.A21K	101.3	101.6	2014.236	23:21:46
TA.A21K	214.7	89.6	2015.293	21:52:02
TA.C23K	206.7	90.0	2017.231	02:00:52
TA.C23K	205.9	91.8	2016.268	21:28:42
TA.C24K	219.6	93.5	2016.202	15:13:16
TA.C24K	208.1	90.3	2017.108	17:11:47
TA.C24K	208.9	96.5	2017.168	22:26:03
TA.C24K	208.5	90.2	2017.231	02:00:52
TA.C24K	207.7	92.0	2016.268	21:28:42
TA.C27K	271.0	98.2	2016.236	19:39:44
TA.D23K	259.3	94.0	2016.356	00:17:15

TA.D23K	205.8	91.0	2016.268	21:28:42
TA.D24K	208.7	96.0	2017.168	22:26:03
TA.D24K	207.1	102.8	2017.180	07:03:11
TA.E19K	200.5	86.9	2017.231	02:00:52
TA.E24K	280.6	99.5	2016.293	00:26:01
TA.E24K	208.3	88.8	2017.108	17:11:47
TA.E24K	287.2	100.8	2017.225	03:08:11
TA.E24K	208.7	88.8	2017.231	02:00:52
TA.EPYK	299.7	104.6	2016.153	22:56:01
TA.F21K	204.1	87.2	2017.231	02:00:52
TA.F22K	216.4	91.0	2016.202	15:13:16
TA.F22K	205.3	87.7	2017.231	02:00:52
TA.F25K	268.1	97.1	2016.340	01:13:05
TA.F26K	226.4	89.4	2017.129	13:52:11
TA.G17K	197.4	84.6	2017.231	02:00:52
TA.G26K	269.7	97.8	2016.340	01:13:05
TA.G27K	272.5	99.0	2016.236	19:39:44
TA.G27K	271.6	98.7	2016.340	01:13:05
TA.G30M	117.9	104.4	2017.049	12:10:15
TA.G30M	113.6	101.1	2017.052	14:09:04
TA.G30M	220.1	90.6	2017.231	02:00:52
TA.H19K	279.3	98.4	2017.225	03:08:11
TA.H19K	201.3	85.2	2017.231	02:00:52
TA.H20K	202.8	85.4	2017.231	02:00:52
TA.H21K	111.8	115.2	2015.264	17:40:01
TA.H21K	111.3	115.1	2015.265	07:12:60
TA.H21K	284.3	98.8	2016.153	22:56:01
TA.H21K	215.8	89.3	2016.202	15:13:16
TA.H21K	205.0	92.2	2017.168	22:26:03
TA.H21K	204.8	85.9	2017.231	02:00:52
TA.H21K	203.9	87.7	2016.268	21:28:42
TA.H22K	206.1	86.4	2017.231	02:00:52
TA.H25K	268.6	97.4	2016.236	19:39:44
TA.H27K	111.7	91.5	2016.353	13:30:11
TA.H27K	109.0	102.7	2017.052	14:09:04
TA.H27K	293.5	104.0	2017.225	03:08:11
TA.H31M	300.3	106.8	2017.225	03:08:11
TA.I17K	197.9	89.3	2017.168	22:26:03
TA.I23K	221.7	86.4	2015.293	21:52:02
TA.I27K	112.2	104.5	2016.217	14:15:12
TA.I27K	112.2	104.5	2016.217	14:15:12
TA.I27K	215.2	88.2	2017.231	02:00:52
TA.I27K	214.2	89.9	2016.268	21:28:42
TA.I28M	294.8	104.9	2017.225	03:08:11
TA.I30M	220.0	89.2	2017.231	02:00:52
TA.J14K	194.1	94.8	2017.180	07:03:11

TA.J20K	201.5	92.6	2015.218	23:59:45
TA.J20K	282.9	98.6	2016.153	22:56:01
TA.J20K	274.8	97.8	2016.293	00:26:01
TA.J20K	204.2	89.9	2017.002	13:14:03
TA.J20K	281.2	99.6	2017.225	03:08:11
TA.J25K	225.4	87.2	2015.293	21:52:02
TA.J25K	108.3	91.6	2015.330	05:45:18
TA.J25K	291.1	102.1	2016.153	22:56:01
TA.J25K	209.6	99.5	2017.180	07:03:11
TA.J26L	119.9	111.2	2015.264	17:40:01
TA.J26L	265.5	92.4	2015.343	10:21:50
TA.J26L	212.5	89.5	2016.148	04:08:44
TA.J26L	292.7	102.9	2016.153	22:56:01
TA.J26L	270.4	98.3	2016.236	19:39:44
TA.J26L	112.1	106.1	2017.049	12:10:15
TA.J26L	212.4	88.5	2016.268	21:28:42
TA.J29M	275.3	100.6	2016.236	19:39:44
TA.J29M	297.8	105.0	2016.153	22:56:01
TA.K17K	200.1	88.6	2017.168	22:26:03
TA.K20K	100.6	95.0	2015.330	05:45:18
TA.K20K	282.8	98.8	2016.153	22:56:01
TA.K20K	282.8	98.8	2016.153	22:56:01
TA.K27K	292.3	103.4	2015.135	20:26:56
TA.K27K	212.1	94.9	2015.218	23:59:45
TA.K27K	294.0	103.6	2016.153	22:56:01
TA.K27K	225.5	91.1	2016.202	15:13:16
TA.K27K	112.2	104.1	2016.217	14:15:12
TA.K27K	214.5	93.1	2017.168	22:26:03
TA.K27K	213.8	88.4	2016.268	21:28:42
TA.L19K	100.0	95.1	2015.330	05:45:18
TA.L19K	263.6	99.6	2016.161	04:13:08
TA.L20K	264.5	100.1	2016.161	04:13:08
TA.L26K	111.4	104.3	2016.217	14:15:12
TA.L26K	269.6	98.0	2016.340	01:13:05
TA.L26K	265.5	96.1	2016.356	00:17:15
TA.L27K	212.2	94.1	2015.218	23:59:45
TA.L27K	112.6	103.7	2016.217	14:15:12
TA.L29M	275.1	100.7	2016.236	19:39:44
TA.L29M	274.2	100.4	2016.340	01:13:05
TA.M20K	204.7	88.7	2017.168	22:26:03
TA.M22K	262.8	91.3	2016.157	16:25:34
TA.M23K	288.3	102.0	2016.153	22:56:01
TA.M23K	266.4	96.3	2016.236	19:39:44
TA.M26K	269.8	98.2	2016.340	01:13:05
TA.M26K	265.7	96.3	2016.356	00:17:15
TA.M27K	214.7	91.7	2017.168	22:26:03

TA.M29M	112.4	100.2	2017.052	14:09:04
TA.M30M	276.2	101.4	2016.236	19:39:44
TA.M30M	298.7	106.4	2016.153	22:56:01
TA.M30M	276.7	92.0	2016.159	19:15:16
TA.M30M	276.2	101.4	2016.236	19:39:44
TA.M30M	281.5	90.9	2017.010	06:13:47
TA.M31M	300.9	107.6	2016.153	22:56:01
TA.M31M	221.8	87.5	2017.231	02:00:52
TA.N18K	280.8	98.5	2016.153	22:56:01
TA.N18K	280.8	98.5	2016.153	22:56:01
TA.N19K	282.1	99.2	2016.153	22:56:01
TA.N19K	280.4	100.1	2017.225	03:08:11
TA.N25K	209.8	92.2	2015.218	23:59:45
TA.N25K	291.1	103.5	2016.153	22:56:01
TA.N25K	272.5	104.4	2016.161	04:13:08
TA.N25K	283.0	102.5	2016.293	00:26:01
TA.N30M	123.7	108.1	2016.325	20:57:44
TA.O16K	278.7	97.6	2016.153	22:56:01
TA.O16K	278.7	97.6	2016.153	22:56:01
TA.O18K	281.3	99.0	2016.153	22:56:01
TA.O19K	201.3	88.9	2015.218	23:59:45
TA.O19K	203.7	87.0	2017.168	22:26:03
TA.O20K	202.8	89.1	2015.218	23:59:45
TA.O20K	102.1	93.7	2015.330	05:45:18
TA.O22K	264.4	95.2	2015.058	13:45:05
TA.O22K	205.3	90.0	2015.218	23:59:45
TA.O28M	120.2	103.3	2016.207	17:26:50
TA.O29M	228.5	89.7	2016.202	15:13:16
TA.P16K	278.7	97.8	2016.153	22:56:01
TA.P19K	202.3	88.6	2015.218	23:59:45
TA.P30M	297.9	107.5	2016.153	22:56:01
TA.P33M	279.2	103.6	2016.236	19:39:44
TA.P33M	117.5	96.8	2017.052	14:09:04
TA.POKR	210.2	93.4	2014.124	09:15:53
TA.POKR	209.0	88.1	2014.202	14:54:41
TA.POKR	110.6	96.6	2014.236	23:21:46
TA.POKR	106.4	92.6	2015.330	05:45:18
TA.POKR	208.8	88.2	2016.268	21:28:42
TA.Q19K	101.3	94.0	2015.330	05:45:18
TA.Q20K	265.1	100.5	2016.161	04:13:08
TA.Q23K	267.2	96.8	2015.058	13:45:05
TA.T35M	280.7	105.5	2016.236	19:39:44
TA.TCOL	208.0	87.6	2014.305	18:57:22
TA.TCOL	210.3	94.4	2014.124	09:25:15
TA.TCOL	288.8	101.0	2016.153	22:56:01
TA.TOLK	100.8	102.3	2011.326	18:48:16

TA.TOLK	220.9	89.4	2013.207	07:07:16
TA.TOLK	208.9	97.3	2014.124	09:25:15
TA.TOLK	207.1	91.9	2016.148	04:08:44
TA.V35K	279.0	105.0	2016.236	19:39:44
XV.F7TV	221.2	86.0	2015.293	21:52:02
XV.FPAP	207.8	85.7	2017.108	17:11:47
YG.DEN1	109.2	105.4	2016.217	14:15:12
YG.DEN1	267.3	96.8	2016.340	01:13:05
YG.DEN3	266.5	96.4	2016.340	01:13:05
YG.DEN3	210.0	84.8	2017.108	17:11:47
YG.DEN4	205.3	94.0	2016.195	12:11:13
YG.DEN4	265.8	96.1	2016.340	01:13:05
YG.GLN3	280.9	101.3	2016.293	00:26:01
YG.GLN4	266.4	96.3	2016.236	19:39:44
YG.GLN4	265.5	95.9	2016.340	01:13:05
YG.HLC5	100.8	94.5	2015.330	05:45:18
YG.LKLO	110.2	106.5	2017.049	12:10:15
YG.MCR2	112.5	105.1	2017.049	12:10:15
YG.MCR3	107.9	102.3	2017.052	14:09:04
YG.MCR3	269.9	98.2	2016.236	19:39:44
YG.MCR4	283.7	102.9	2016.293	00:26:01
YG.MCR5	269.0	97.8	2016.340	01:13:05
YG.MCR6	112.8	104.9	2017.049	12:10:15
YG.NEB2	212.5	86.9	2016.268	21:28:42
YG.RH03	268.5	97.4	2016.236	19:39:44
YG.RH04	282.4	101.8	2016.293	00:26:01
YG.RH04	106.4	103.3	2017.052	14:09:04
YG.RH05	108.3	91.9	2016.353	13:30:11
YG.RH05	210.7	86.5	2016.268	21:28:42
YG.RH06	111.0	106.2	2017.049	12:10:15
YG.RH11	110.2	104.5	2016.217	14:15:12
YG.RH12	108.4	91.4	2016.353	13:30:11
YG.RH13	111.5	105.6	2017.049	12:10:15
YG.TOK1	269.0	97.7	2016.236	19:39:44
YG.TOK2	111.9	105.7	2017.049	12:10:15
YG.TOK3	107.3	102.8	2017.052	14:09:04
YG.TOK5	112.9	105.4	2017.049	12:10:15
YG.TOK6	108.4	102.4	2017.052	14:09:04
ZE.BING	103.9	93.7	2015.328	22:50:54
ZE.CONG	103.1	93.3	2015.330	05:45:18
ZE.CONG	103.3	94.2	2015.328	22:50:54
ZE.GOOS	205.2	90.8	2015.218	23:59:45
ZE.GOOS	104.6	93.5	2015.328	22:50:54
ZE.LTUX	103.7	93.7	2015.328	22:50:54
ZE.LTUY	103.4	93.0	2015.330	05:45:18
ZE.LTUY	103.7	94.4	2015.328	22:45:38

ZE.LTUY	103.5	93.9	2015.328	22:50:54
ZE.MPEN	103.9	92.8	2015.330	05:45:18
ZE.MPEN	104.1	93.7	2015.328	22:50:54
ZE.NNIL	103.1	94.1	2015.328	22:50:54
ZE.NSKI	103.4	94.0	2015.328	22:50:54
ZE.SOLD	103.7	94.4	2015.328	22:45:38
ZE.WFLS	100.2	94.9	2015.330	05:45:18
ZE.WFLS	100.3	95.8	2015.328	22:50:54
ZE.WFLW	281.5	98.8	2016.153	22:56:01
ZE.WHIP	204.6	90.3	2015.218	23:59:45
ZE.WHIP	204.2	101.4	2016.245	16:37:58